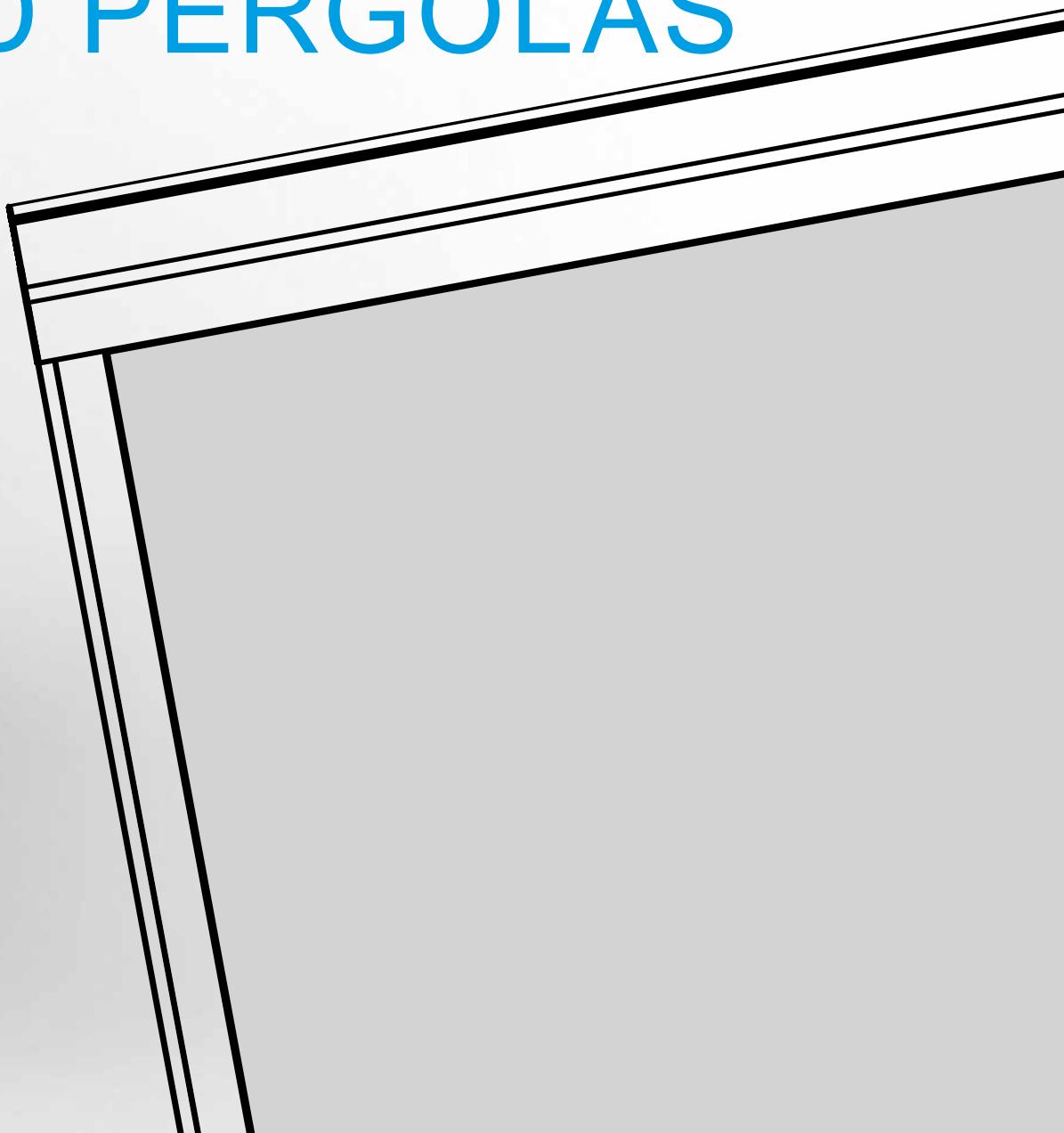




# SHADING FOR WINTER GARDENS AND PERGOLAS



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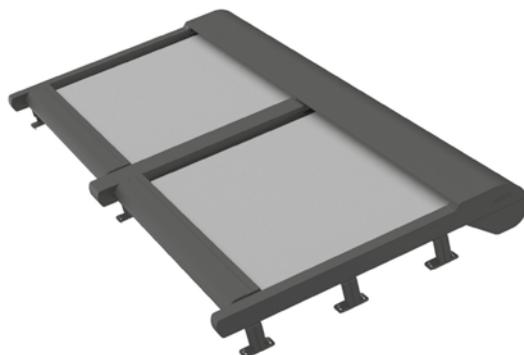
Products in this assortment group are always measured from the exterior.

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## ISOTRA *Quality*

A mark symbolising long tradition, inestimable investment into development, the use of quality materials, state-of the-art technologies, reliable work from hundreds of employees and numerous other parameters, constituting one entity - the final product of ISOTRA.

# Veranda HRV52

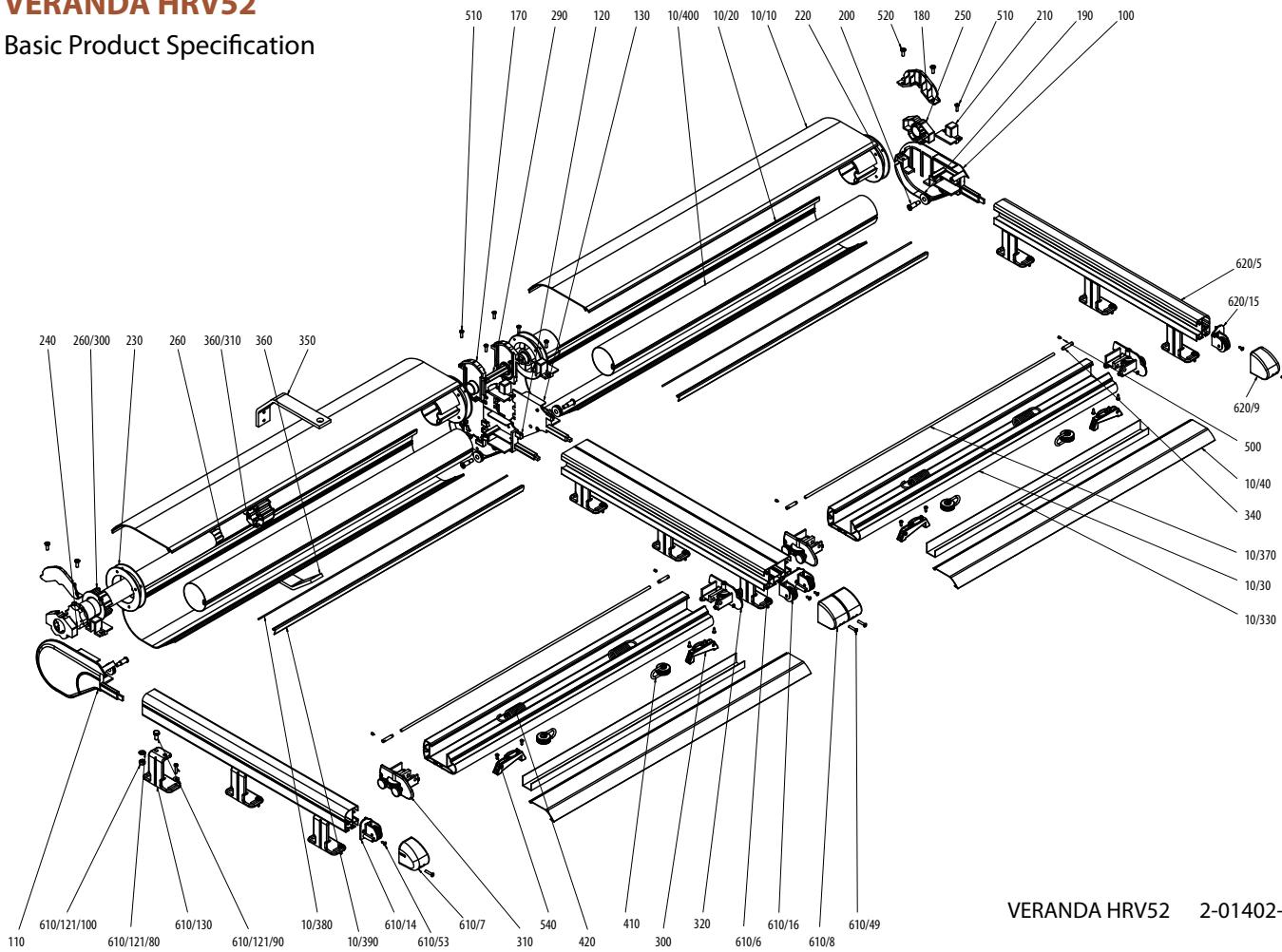


- ▲ Shading of large spaces of winter gardens
- ▲ Thermo regulation and protection effect
- ▲ Possibility to connect up to 4 pcs (do not have common box)
- ▲ Box is produced from extruded aluminum profiles

**ISOTRA** Quality

# VERANDA HRV52

## Basic Product Specification



VERANDA HRV52 2-01402-0000

### Control

**Motor** – tubular motor 230V (50 Hz) with automatic post-regulation, this means the motor slows at approx. 10 cm before the bottom bar closes against the roller box so that it stops without forcibly hitting it. As standard there is supplied 3 meters long cable (optionally 5 or 10 m), a single-pole surface-mounted switch and plug.

### Fabrics

The fabrics are welded in vertical rows of about 885mm wide. The side straps have maximum width of 500mm, the side edges have constant width of 40mm.

### Specification

|                       | Upper profile   | Bottom profile | Slide guidance |         | Assembly                |
|-----------------------|---|----------------|----------------|---------|-------------------------|
|                       |   |                | Guide rail     |         |                         |
| <b>Dimension (mm)</b> | 145 x 215   | 56x115         | 61x46          | 61 x 94 |                         |
| <b>Material</b>       | Al  | Al             | Al             | Al      |                         |
|                       |   |                |                |         | above the winter garden |
| <b>Colour</b>         | RAL 9010, RAL 9006, RAL 9007, RAL 8014, RAL 7016, RAL 7016S, DECORAL only up to 4000 mm width |                |                |         |                         |

### Standard Dimensions

| Control | Width (mm) |      | Height (mm) | Guaranteed area (m <sup>2</sup> ) |
|---------|------------|------|-------------|-----------------------------------|
|         | min        | max  |             |                                   |
| motor   | 1500       | 5500 | 6000        | 25                                |

### Weight

The approaching weight = Width X 18 kg per meter (width)

## VERANDA HRV52 (2-01402)

| position     | item name                            | trade name - abbreviation 2 | order number - abbreviation 1          |
|--------------|--------------------------------------|-----------------------------|--|
| 10           | Profiles - VERANDA                   |                             | see Profiles - VERANDA HRV52           |
| 19           | Fabric for SCREEN                    |                             | see screen fabric sampler - Soltis 92  |
| 20-25, 30-35 | Fabric for VERANDAS                  |                             | see awning fabric sampler              |
| 100          | Side cap - RIGHT                     | VRH 007/1                   | 6-018120-0000                          |
| 110          | Side cap - LEFT                      | VRH 005/1                   | 6-018119-0000                          |
| 120          | Side cap central - LEFT              | VRH 008                     | 6-014590-0000                          |
| 130          | Side cap central - RIGHT             | VRH 009                     | 6-014591-0000                          |
| 170          | Bearing - CENTRAL                    | VRH 051                     | 6-014595-0000                          |
| 180          | Bearing cover for side frame - BLACK | VRH 042                     | 6-014596-9004                          |
| 190          | Reverse wheel for side-cap - 28x8 mm | VRH 094                     | 6-014597-0000                          |
| 200          | Peg for reverse wheel - 10x34 mm     | VRH 014                     | 6-014598-0000                          |
| 210          | Entrance part for side-cap - BLACK   | VRH 137                     | 6-014599-9004                          |
| 220          | Cylinder cover Ø 78mm                | VRH 045                     | 6-014600-0000                          |
| 230          | Cylinder cover for Motor Ø 78mm      | VRH 047                     | 6-014603-0000                          |
| 240          | Adaptor                              |                             |  |
| 250          | Bearing                              | VRH 052                     | 6-014605-0000                          |
| 260          | Motors (Somfy) VERANDA               |                             |  |
| 290          | Connection rod zinc coated           | VRH 098                     | 6-014606-0000                          |
| 300          | Terminal plate for HI - TEC cord     | VRH 099                     | 6-014607-0000                          |
| 310          | Bottom rail end-cap - LEFT BLACK     | VRH 033                     | 6-014608-9004                          |
| 320          | Bottom rail end-cap - RIGHT BLACK    | VRH 034                     | 6-014609-9004                          |
| 340          | Strengthening prop for box           | MRH 144                     | 6-014481-0000                          |
| 350          | Boxholder upperpiece                 | VRH 015                     | 6-014611-0000                          |
| 360          | Boxholder lowerpart                  | VRH 016                     | 6-014760-0000                          |
| 410          | Wheel with fork for cord guiding HRV |                             | 6-019123-0000                          |
| 420          | Spring 850 mm double spiral          | VRH 092                     | 6-014620-0000                          |
| 500          | Screw M5x8 DIN 914 (inbus)           |                             |  |
| 510          | Screw M5x16 stainless A2, DIN 7985   | VRH 106                     | 6-014637-0000                          |
| 520          | Screw M6x16 stainless A2, DIN 7985   | VRH 110                     | 6-014638-0000                          |
| 540          | Woodscrew 4,2x13 DIN 7981 CH, A2     | VRH 132                     | 6-014640-0000                          |
| 570          | Woodscrew 4,8x16 DIN 7982, A2        | VRH 135                     | 6-014875-0000                          |
| 590          | Rivet Al 4x8 DIN 7337 A              | SC 132 0000                 | 6-003136-0000                          |
| 591-594      | Rivet Al 4x8                         | VRH 060-063                 | 6-014932-XXXX                          |
| 610          | Guidance - rail - LEFT               |                             | see Guidance - rail HRV52 - left/right |
| 620          | Guidance - rail - RIGHT              |                             | see Guidance - rail HRV52 - left/right |

## Profiles - VERANDA HRV52 (3-03076-PU11)

| position | item name                        | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|----------------------------------|-----------------------------|-------------------------------|
| 43383    | BOX profile - cover              | VRH 069                     | 6-014580-0000                 |
| 44105    | BOX profile - bottom             | VRH 071                     | 6-014579-0000                 |
| 11232    | Bottom profile                   | VRH 073                     | 6-014581-0000                 |
| 14885    | Bottom profile - cover           | VRH 075                     | 6-014582-0000                 |
| 10/330   | Profile PVC L=2m                 | VRH 084                     | 6-014610-0000                 |
| 10/370   | Plastic bar PVC 6,0 mm           | ZP0097/0006                 | 6-016911-0006                 |
| 10/380   | Tube PVC dia. 3mm                | VRH 113                     | 6-014613-0000                 |
| 10/390   | Fabric clip profile - PVC - 6,0m | MRH 127                     | 6-014566-0000                 |
| 10/400   | Roller Al dia. 78mm - 7m         | VRH 123                     | 6-014615-0000                 |

## Guidance - rail HRV52 - left/right (2-01404-PU11L/P)

| position    | item name                         | trade name - abbreviation 2 | order number - abbreviation 1 |
|-------------|-----------------------------------|-----------------------------|-------------------------------|
| 610/6       | Guiding channel - double          | VRH 087/1                   | 6-018122-0000                 |
| 610/7       | Guiding channel end-cap - LEFT    | VRH 036/1                   | 6-018123-0000                 |
| 610/8       | Guiding channel end-cap - CENTRAL | VRH 040/1                   | 6-018125-0000                 |
| 610/14      | Pulley LEFT                       | VRH 026                     | 6-014592-0000                 |
| 610/16      | Pulley CENTRAL                    | VRH 028                     | 6-014594-0000                 |
| 610/49      | Screw M5x25 DIN 966, A2           | VRH 107                     | 6-014635-0000                 |
| 610/53      | Woodscrew 4,2x13 DIN 7982, A2     | VRH 133                     | 6-014639-0000                 |
| 610/121/80  | Pad M8, DIN 125 A2                | VRH 065                     | 6-014632-0000                 |
| 610/121/90  | Screw M8x16, DIN 933, A2          | VRH 112                     | 6-014641-0000                 |
| 610/121/100 | Nut M8 DIN 934, A2                | VRH 058                     | 6-014642-0000                 |
| 610/130     | Holder standard                   | VRH 019                     | 6-014630-0000                 |
| 620/5       | Guiding channel profile           | VRH 090/1                   | 6-018121-0000                 |
| 620/9       | Guiding channel end-cap - RIGHT   | VRH 038/1                   | 6-018124-0000                 |
| 620/15      | Pulley RIGHT                      | VRH 027                     | 6-014593-0000                 |

# VERANDA HRV52

## Technical Specification

### Upper profile (box)

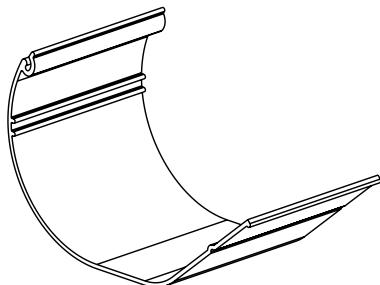
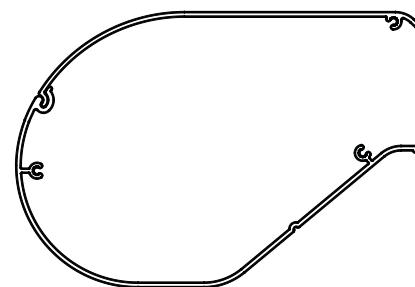
Material : press formed from 1,2 mm thick pre-coated aluminium strip, and provided with a protective foil liner

Dimension : 145 mm x 215 mm

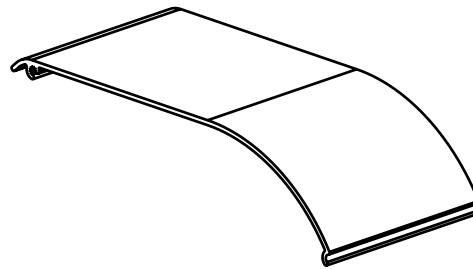
Consists of two sections :

- a removable chamfered upper section or cover
- a fix lower section

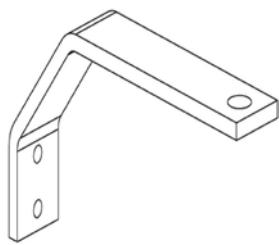
An extra reinforcement support is fitted in the middle of each section



**Box - underside** (6-014579-0000)



**Box - cover** (6-014580-0000)

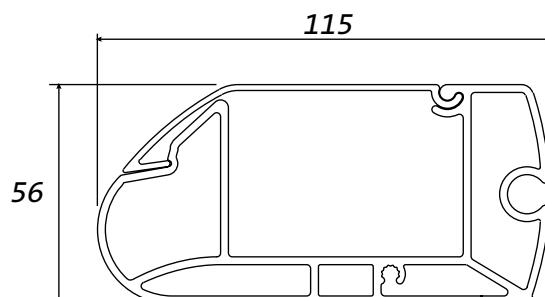


**BOX holder, upper part - VZ520** (6-014611-0000)

The box holder is a part of the box stiffening bracket set(VRH 224, 2-01562-0000), which is recommended to be used from 4-meter box width of the Veranda HRV52.

### Bottom rail

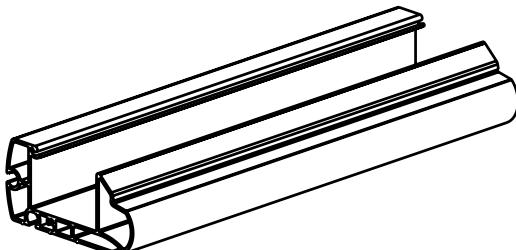
Material : extruded aluminium, powdercoated



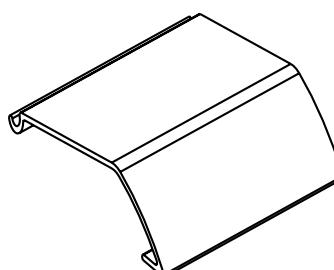
Function :

- The lower section : provided with 1 groove.
- The closing section : is clipped to the lower section

This profile runs along the slots in the side guides



**Endprofile** (6-014581-0000)



**Covering Endprofil** (6-014582)

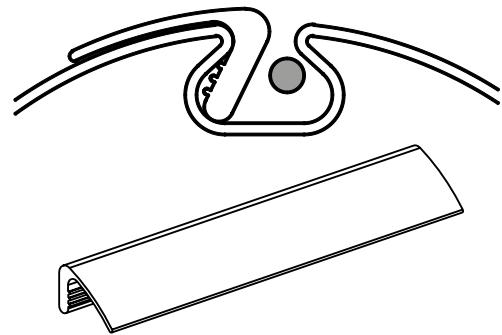
### Fabric clip profile

Material : consists of extruded PVC clips

Function : attaching the fabric in the fabric slot without the use of screws, so that the fabric can be removed from the front instead of sliding off sideways

Diameter of the PVC fabric retainer : 3 mm

Advantage : quick and easy fabric changing

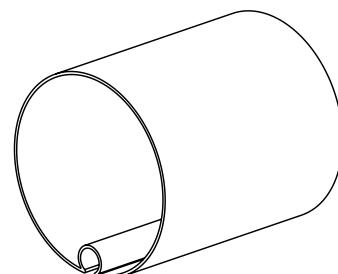


### Roller - aluminium, dia. 85 mm - 7 m

Material : a welded tube, formed from a steel strip Sendzimir-galvanised, with a groove for attaching the fabric

- Function : rolling the blind fabric up and down.

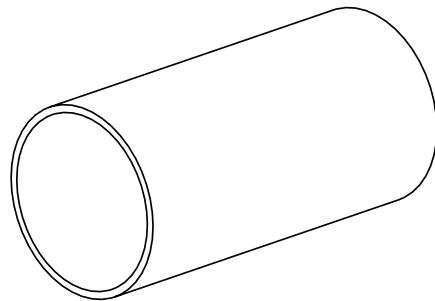
- Diameters : Ø85x1,2 mm



### Intermediate roll for the inclined surface (2-01431-0000)

Material : extruded aluminium tube Ø50 mm x 2 mm

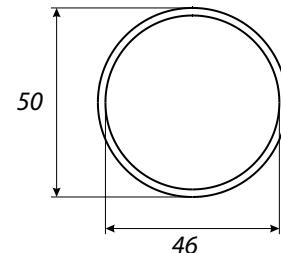
wall-thickness, powdercoated



Function : Used to support the fabric on longer projections

- Over 5001 mm extension :

Included as standard and installed in the middle of the projection



- Projection smaller than 5000 mm :

Intermediate roll in option

| H/W  | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 3750 | 4000 | 4250 | 4500 | 4750 | 5000 | 5250 | 5500 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1500 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1750 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2250 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2500 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2750 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3250 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3500 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3750 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 4000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 4250 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 4500 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 4750 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 5000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 5250 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 5500 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 5750 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 6000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

  The intermediate roll is recommended.

  The intermediate roll is included in the price.

## Guide rails

Material : extruded aluminium, powdercoated

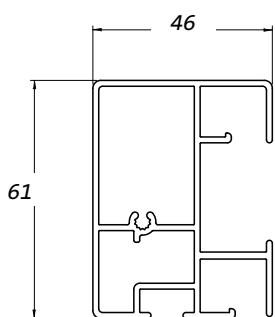
Two types :

- End guides : installed on outer sides, with a front rail slot on one side only
- Centre guides : installed centrally, with a front rail slot on either side.

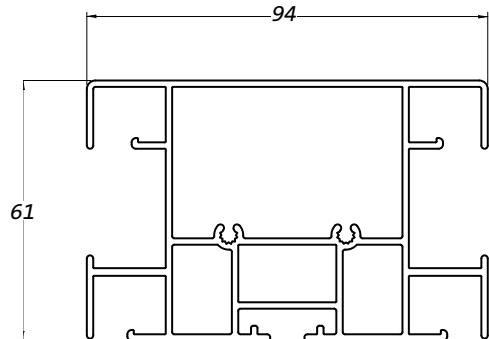
The profiles have a channel into which the bracket support pins fit.

Aluminium extrusions coated to match the frame.

End guides



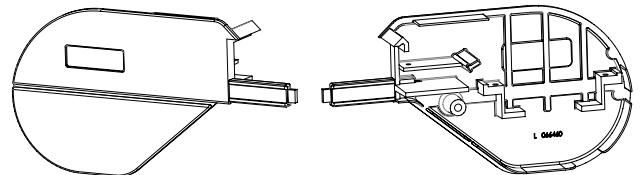
Centre guides



## The Consoles (or End Checks)

Material : hydraulic cast aluminium

- Colour : 9010, RAL 9006, RAL 9007, RAL 8014, RAL 7016, RAL 7016S, DECORAL only up to max. width 4000 mm
- Dimensions : 145x215 mm



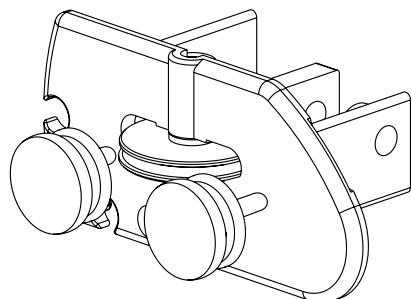
## Carriages

Material : cast PVC (Luran)

Colour : as standard black

Function :

- connection of front rail and side guides, fitted with two carriage wheels
- are mounted at the end of the front rail



## The Tensioning System

Material : the castors, axles, etc. are made of non-corroding materials

Function : the entire fabric and front rail are kept under constant tension by means of a spring, a rope and a 02,5 mm cable

The constant spring tension ensures that the fabric remains taut in any position, to ensure adequate ventilation between the fabric and the glazing.

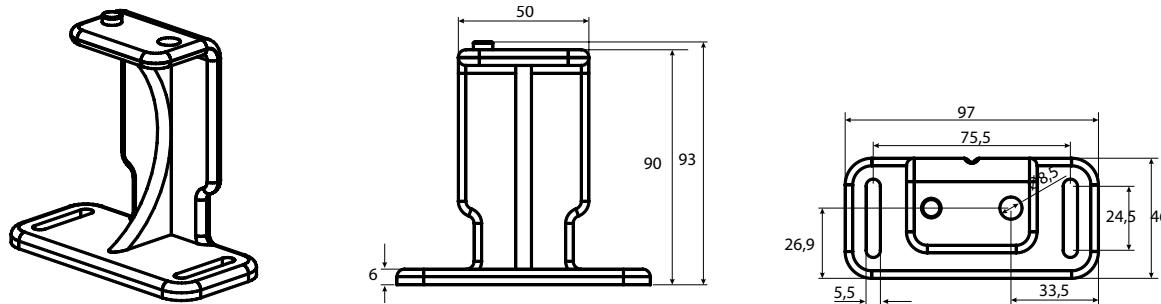
## Guide Fixing Brackets

### Standard support (6-014630-0000)

Material : aluminium

Colour : coated to match the frame

Function : used for any type of glass-covered conservatory framework and for all wooden pergolas and veranda systems.



The clearance between the guides and the mullions can be increased by means of extension points (see guide fixing bracket Av, Bv and Cv).

Option: The supports are available in lengths of 120 mm, 200 mm, 300 mm or 400 mm

- Take into account that the verandaprofiles are under a higher load.
- They can only be used when there is no danger of them twisting.

The attachment system is in two parts :

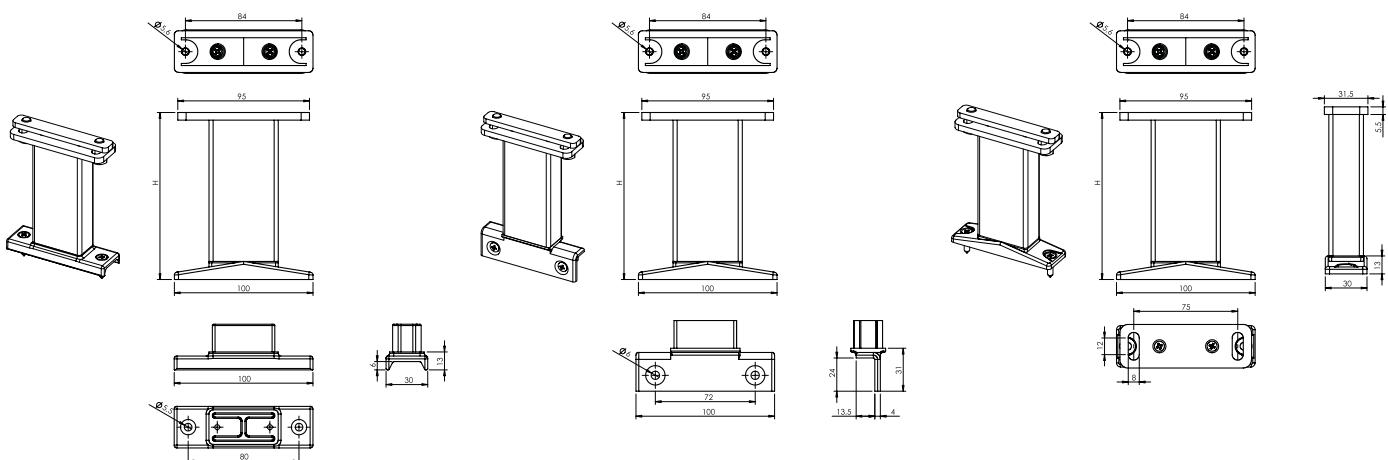
- The upper part : Slides into the groove below the side and central guides
- The lower part, exists in two versions :

*Higher attachment point - low profile Av :*

- For any type of glass-covered aluminium conservatory framework and for all wooden pergolas and veranda systems.
- Is screwed on to the wood or into the groove at the top of the mullions through the capping section into which the rubber seal is fitted. (mounting A)

*Higher attachment point - high profile Bv :*

- For all types of conservatories with the glass beneath where the mullions have an extended leg above the glazing
- Is fixed to the mullion with two bolts. (mounting B)



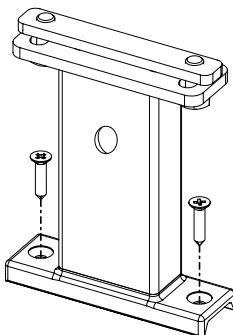
**Bracket VL Av** (2-01410-PU11X)

**Bracket VL Bv** (2-01411-PU11X)

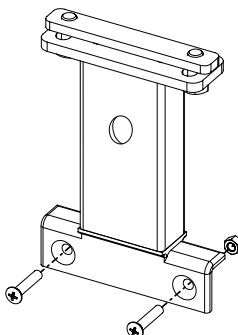
**Bracket VL Cv** (2-01412-PU11X)

Intermediate roll for the inclined surface If a intermediate roll for the inclined surface is used in the HRV52 product (**height above 5m or customer requested by itself**), standard brackets can not be used, but guide fixing brackets **Av, Bv, Cv** can only be used.

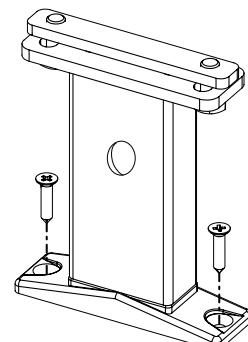
## Brackets for intermediate roll



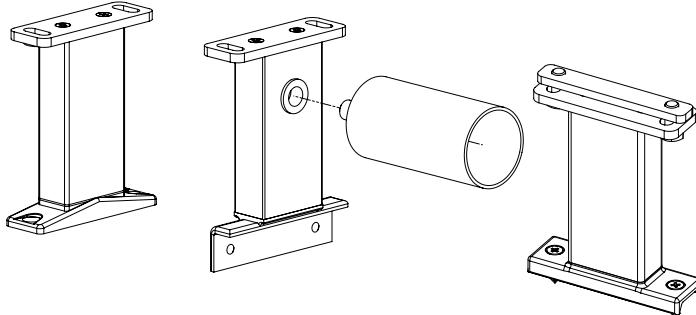
Bracket Av



Bracket Bv

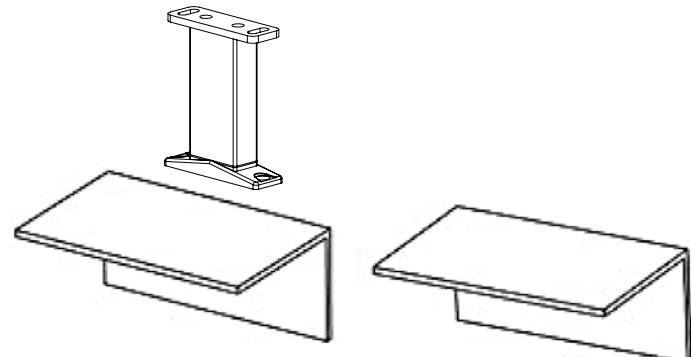


Bracket Cv



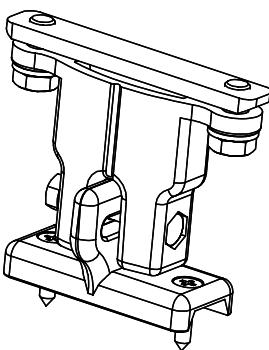
### Additional fixing possibilities :

- If fixing methods A or B are not possible, an option is to fix against a wall. For this, angled profiles can be used in combination with flat attachment points C
- The upper- and lower part fixings are slotted to allow for any minor seating tolerances in the roof sections
- The maximum distance between two fixing points along a guide is max. 1600 mm



Remark : In case of an intermediate roll, the awning will be mounted on higher aluminium attachment points of 120 mm.

### Standard guide fixing bracket SA



### Fixing on the wall

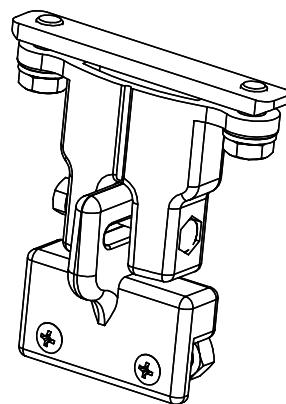
#### Additional fitting options:

If fixing methods A or B are not possible, an option is to fix against a wall. There are 3 standardised L-profiles. (Always to be used with flat supports Cv).

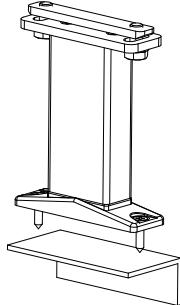
#### Available in the following sizes:

- Type L1 = 50 x 30 x 3 mm
- Type L2 = 100 x 50 x 3 mm
- Type L3 = 130 x 50 x 5 mm

### Standard guide fixing bracket SB



For extension length up to 3 m, only 1 profile is used. For extension length over 3 m, 2 profile pieces are used.



## Technical options – verandas coupling

| Type   | Maximum width (m) |           |            |            |            |    |      |    | Max. area          | Number of verandas | Number of motors |
|--------|-------------------|-----------|------------|------------|------------|----|------|----|--------------------|--------------------|------------------|
|        | 1,5               | 3         | 4,5        | 5,5        | 6          | 11 | 16,5 | 22 |                    |                    |                  |
| Type 1 |                   | 1 veranda |            |            |            |    |      |    | 25 m <sup>2</sup>  | 1                  | 1                |
| Type 2 |                   |           | 2 verandas |            |            |    |      |    | 50 m <sup>2</sup>  | 2                  | 1*               |
| Type 3 |                   |           |            | 3 verandas |            |    |      |    | 75 m <sup>2</sup>  | 3                  | 2                |
| Type 4 |                   |           |            |            | 4 verandas |    |      |    | 100 m <sup>2</sup> | 4                  | 2                |

(\*) also optional with 2 motors

### Coupling Two Side Guides

To connect 2 veranda sunblinds, coupling parts are available.

#### Coupling set

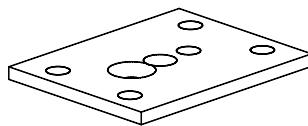
It consists of coupling plate, angle coupling and the attachment.

#### Function:

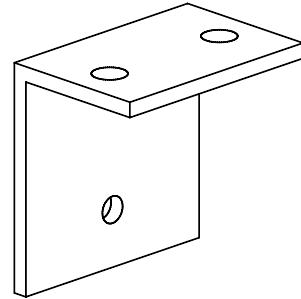
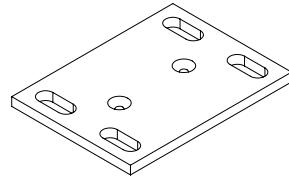
- When the standard attachment point is placed in the middle, the upper part should be replaced by the angle coupling
- When the standard attachment point is placed left or right on the guide, the coupling will be done independently of the attachment point, by mounting the coupling plate behind the attachment points
- When the extended attachment point is placed in the middle, the upper part should be replaced by the coupling plate

#### Coupling set

- we always deliver as a complete set (coupling plate + angle coupling), automatically painted in the construction colour.

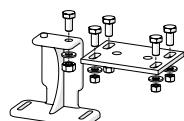
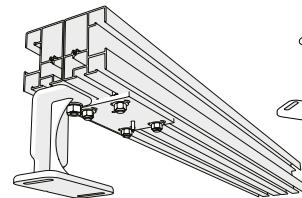
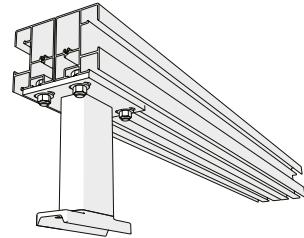
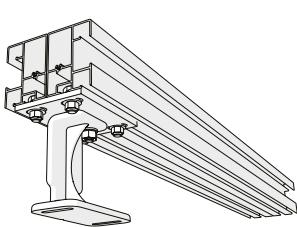


Coupling plate



Angle coupling 6-014820-0000

If the Verandas are coupled, the guide is always double. If there are two simple Verandas next to each other, the connection of simple guide rails is possible only through the connection system.



## Control

Drive via tubular motors 230 Volt (50Hz)

- Fitted with automatic post-regulation, this means the motor slows at approx. 10 cm before the bottom bar closes against the roller box so that it stops without forcibly hitting it
- Fitted far left and/or far right as required
- Control location when viewed from the outside.

Cable :

- As standard 3 m
- Optionally 5 or 10 m
- The distance can be increased by fitting a junction box

A single-pole surface-mounted switch and plug are supplied as standard.

## Motor control

Types of motors

### VERANDA HRV52

| item name                        | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------------------------------|-----------------------------|-------------------------------|
| Motor OREA 50 WT 40/17           | MR 096/40                   | 6-001550-0040                 |
| Motor OREA 60 WT 55/17           | MR 096/55                   | 6-001550-0055                 |
| Motor OREA 60 WT 70/17           | MR 096/70                   | 6-001550-0070                 |
| Motor OREA 60 WT 85/17           | MR 096/85                   | 6-001550-0085                 |
| Motor OREA 50 RTS 40/17          | MR 092/40                   | 6-011171-0040                 |
| Motor OREA 60 RTS 55/17          | MR 092/55                   | 6-011171-0055                 |
| Motor OREA 60 RTS 70/17          | MR 092/70                   | 6-011171-0070                 |
| Motor OREA 60 RTS 85/17          | MR 092/85                   | 6-011171-0085                 |
| Motor Sunea 50 io 40/17          | MR 134/40                   | 6-012559-4017                 |
| Motor Sunea 60 io 55/17          | MR 134/55                   | 6-012559-5517                 |
| Motor Sunea 60 io 70/17          | MR 134/70                   | 6-012559-7017                 |
| Motor Sunea 60 io 85/17          | MR 134/85                   | 6-012559-8517                 |
| Brush 6,7x1500 EC (height 15 mm) | SC 250/15                   | 6-001314-1500                 |
| Brush 6,7x1800 EC (height 18 mm) | SC 250/18                   | 6-001314-1800                 |

### Types of motors (BECKER) for Veranda HRV52

| item name                     | trade name - abbreviation 2 | order number - abbreviation 1 |
|-------------------------------|-----------------------------|-------------------------------|
| Motor BECKER 50 E 40/17       | 17BE                        | 6-017852-0040                 |
| Motor BECKER 50 E 40/17       | BE40                        | 6-017852-0040                 |
| Motor BECKER 60 E 60/17       | BE60                        | 6-017852-0060                 |
| Motor BECKER 60 E 70/17       | BE70                        | 6-017852-0070                 |
| Motor BECKER 60 E 120/11      | BE120                       | 6-017852-0120                 |
| Motor BECKER 60 C 60/17       | 16BC                        | 6-017853-0040                 |
| Motor BECKER 60 C 60/17       | BC40                        | 6-017853-0040                 |
| Motor BECKER 60 C 60/17       | BC60                        | 6-017853-0060                 |
| Motor BECKER 60 C 70/17       | BC70                        | 6-017853-0070                 |
| Motor BECKER 60 C 120/11 PLUS | BC120                       | 6-018886-0120                 |

Note: E=electronic motor, C=radio motor

# VERANDA HRV52

## Measurement and Assembly

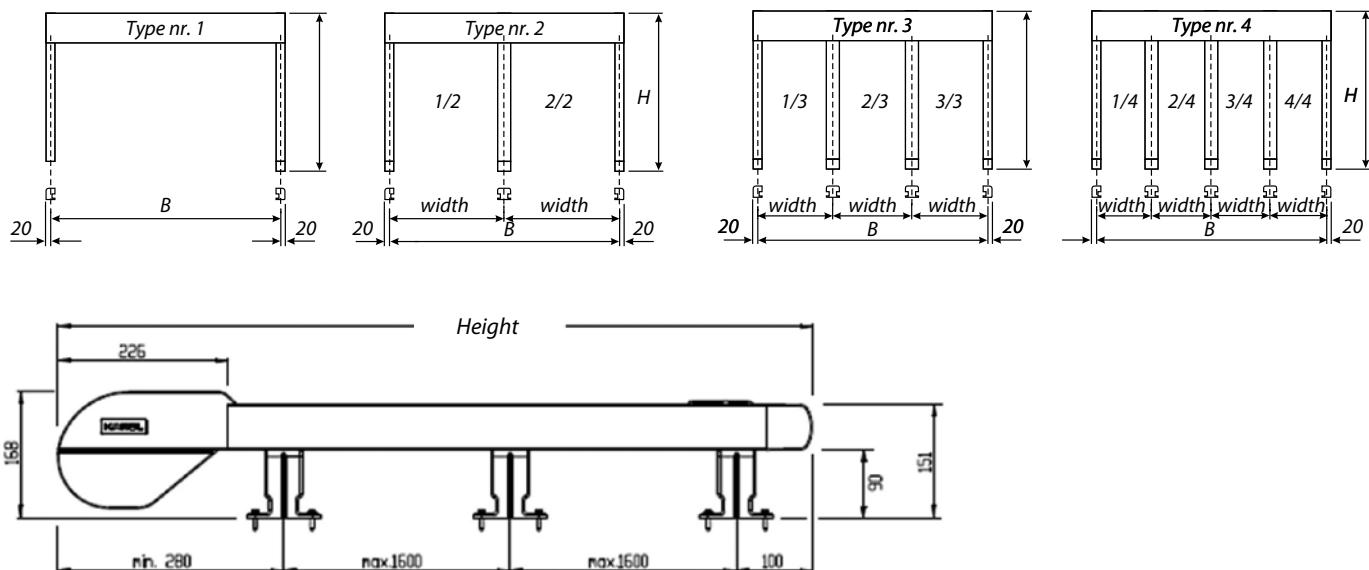
### Measurement

The total width = centre of side guide to centre of side guide. The outside of the box is always 40mm (2x20mm) larger than the middle of the guide rail or the middle of the attachment points.

The projection : measured from the back of the roller box at the top against the wall to the front of the guide, included the cover.

Attention : the extension pole always stops before the covering cap, this means at minimum 63mm of the end of the guide rail.

Note : the width of the roller box is always 40 mm more than the over-all width of the blind.



### Assembly

#### 1. Open the packaging

Take the bag of accessories, and divide the attachment points by the number of guide rails supplied. Make sure each guide rail has the same number of supports. Assemble the support on the guide rails.

#### 2. Setting up the ladders and footplanks on the Veranda

#### 3. Unpack the boxes

Take the boxes out of the packaging and lay them out in the right order on the roof of the Veranda.

#### 4. Checking the measurements

Check the dimensions of the awning against the Veranda profiles. Small deviations in measurements will be caught up by the movable supports.

#### 5. Outlining the different positions

Using a completely prepared guide rail, mark on the roof where the supports are to be mounted.

Take care: the distance between the top support and the top end should be ca. 280 mm. Drill holes, for the base pieces of the supports, and screw the supports tightly onto the Veranda frame.

#### 6. Positioning the wooden blocks

Take a few blocks (60x60x300 mm) and slide them under the mounting brackets between the boxes and the Veranda profile.

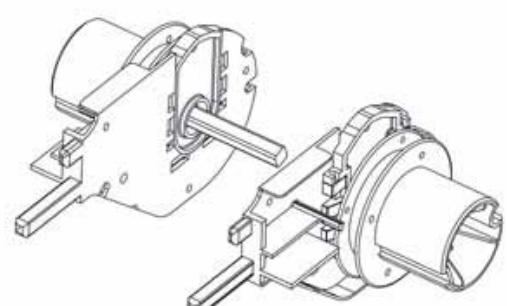
#### 7. Removing the protective plastic foil from the boxes

#### 8. Connecting the boxes

Take care that the spindles are matched to each other correctly.

The slots for the fabrics must be in line with each other. (avoid getting dirty spots on the fabric). Insert the square connecting shaft one side halfway into the side-hole. Check that the blind slot matches, then insert the other half in the other hole. Now press the two halves of the mounting bracket together and fix them by using the screws supplied. Now screw the yellow slides against each other using the small bolt and nut supplied. Each slide has a hole at the top for this purpose.

Only connect up in the right place.



**Attention:** Only couple the spindles as allowed. Given that the power of the motor is selected according to the number of blinds to be operated, the number of blinds connected up must match the number allowed for the motor.

For this reason, end brackets not supplied with a connector are covered by a self-adhesive patch.

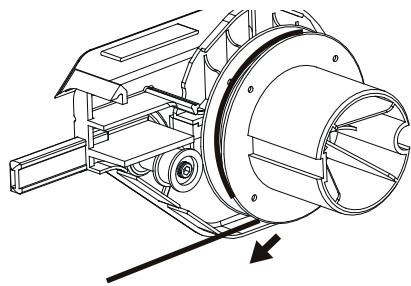
### **9. Positioning the awning:**

Slide the entire sun blind assembly over the wooden blocks upto the right position. (Which may be hard against the wall). Take care that the Veranda profiles are at right angles regarding to the wall. We are working with a squared-off system.

### **10. Unwinding the cables**

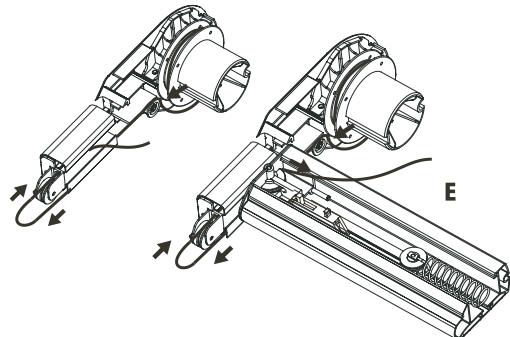
Unwind the cable so that there are no loops or kinks. Check that at least 2 or 3 turns of cable are left on the cable pulley. Mind that the cable unrolls along the bottom side.

Connect the motor cable up provisionally using a test cable and let the endprofile run out for +/- 15cm.



### **11. Positioning the cables into the guide rails**

Take a guide rail, and insert the cable across the entry pulley. Hold the rail pointing diagonally downwards and push the cable through the rail. Make sure that the cable comes out again through the right hole. At the far end, feed the cable back round the pulley.

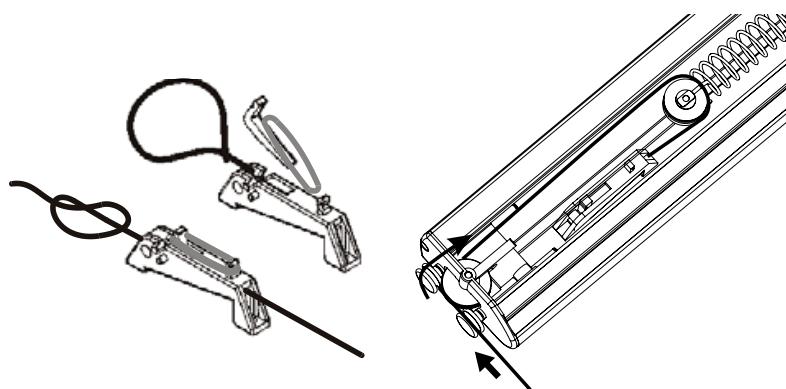


### **12. Positioning the box and the guide rails**

Now lay the guide rails onto the glass roof, just in front of the pins of the mounting brackets. Make sure that the pins of the mounting brackets on the box are in line with the guide rails.

### **13. Positioning the cables into the endprofile**

Insert the cable into the endprofile, aside via the small hole behind the pulley on the slider block.



## 14. Positioning the cables

Lift the box and the end profile to the same height as the guide rails, and insert the endprofile a short way into the rail.

Insert the pin of the mounting bracket into the aperture of the guide rail.

Make sure that the cord and the carriage fit snugly

Then pull the cable at point E and the pin will automatically slide into the guide rail.

Do the same for all the guide rails.

## 15. Fixing the Veranda in the supports

Position the Veranda in the supports, and screw the supports hand-tight by using the screws supplied. Remove the wooden blocks.

## 16. Placement of the intermediate rolls

In case of using intermediate rolls, by extremely large extension, the brackets are placed just underneath the guides. The intermediate rolls must be placed in line to each other and rather in the middle of the lateral guide.

## 17. Tensioning the spring

Position the endprofile in the highest position and make 2 marks in the endprofile the distance apart R shown in the separate table.

The maximum distance depends on the spring supplied, the used fabric, the diameter of the roll for fabric and the extension of the blind.

Make sure the marks are always at the same distance from the centre of the endprofile.

Feed the cable round the pulley (through the fork) and insert the cable through the hole in the rightangled bracket on the end of the endprofile. Feed the cable back through the second hole and tighten the cable clamps on the cable behind the right-angled bracket so that the axle of the pulley is against the marks in the endprofile. (See fig.)

Check carefully the feed of the cable over all the pulleys both on the front of the guide rail, as well as at the endprofile slider block and the cable feed pulley.

Pay attention to the symmetry of the spring.

## 18. Inserting the spring

The Veranda is still in its highest position. Check that the cable doesn't cross over at the cable pulley, but running cleanly side by side.

Thread the spring into the forks of the pulleys and insert the cable into the cable unit. Make a knot in each cable, behind the clamp unit.

The Veranda is now under tension.

If the motor is an Orea or an Altus RTS, please consult the enclosure of the concerned motor

## 19. Running the motor to its stopping point

Let the motor run until it switches off.

Check that the motor stops where it should, not touching the end pulley on the guide rail. The motor is not adjusted.

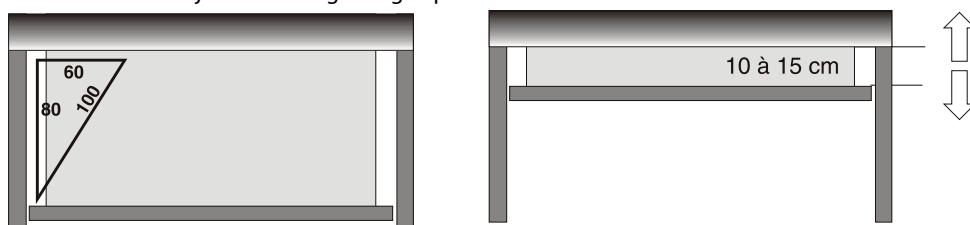
Set the end positions according to the instructions and motor type.

## 20. Control of the right angles

Set the veranda to bottom position. Screw down the base supports permanently. The guide rails and the box should stand at right angles to each other. You can check this by using a large try square or the 60-80-100 rule as shown in figure. A better, and much more precise, way is to measure the diagonals of the separate sections and of the entire construction. The difference between these diagonals must not be more than 2 mm. Also make sure that the guide rails run perfectly parallel along their entire length, so that the tension between the extension profile and the guide rails remains constant.

## 21. Adjusting the highest position

Roll up the sun blind, and stop it by using the fixed switch at ca 10 à 15 cm. before the blind closes. Check up that the endprofile runs straight. Then push the blue button so that also this one lifts up. Let the motor run a little downwards ( 10 à 15 cm). Then let the sun blind close completely. The motor will hum for another few seconds and finally it will stop. (To catch up possible future elasticity of the fabric). The final switches for the motors are adjusted that way. Should it be necessary to readjust the motor, then you can push down again both the buttons. The settings are then erased and you can recommence the adjustments beginning at point 18.



## 22. Secure the Veranda

Screw the socket-head screws on the square clamps for the lowest supports tightly. The entire system is now prevented from sliding downwards.

## 23. Positioning the plastic U-profile

Position the plastic U-section underneath the spring inside the endprofile, so that the spring can move silently in the endprofile. Close the box, and the endprofile. Mount the aluminum covers on to the end of the guide rails.

## 24. Connection and installation of the motor

Take the electric cable from the motor inside and connect the single-pole switch. If necessary, reverse the brown and black leads following the signs on the switch.

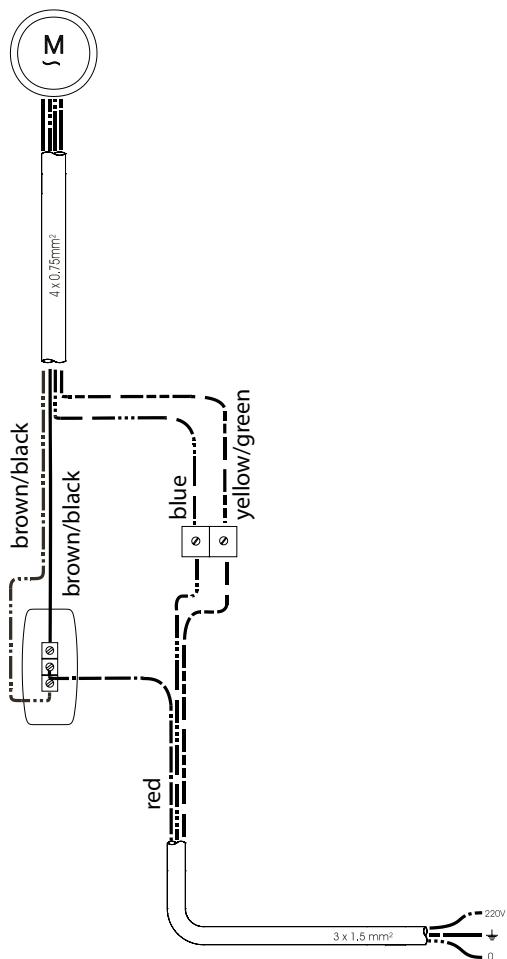
For the installation of type 3 and 4 we proceed the same way, except in this case we have to use a relay box if we will be running more than one motor from a single switch. For the connections, see flow chart R12. The installation of the Veranda has to be done according to the rules.

## 25. Electrical connections

There are 4 wires from the motor. Yellow-green (earth), blue (neutral), brown and black (raise and lower)

From the fuse box, there are 3 wires. Yellow-green (earth), blue (neutral), and phase. Connect the wires as shown in the diagram. The phase wire from the fuse box should be connected to terminal L. If necessary, reverse the brown and black leads from the motor in the switch so that the arrows on the switch correspond to rolling up and unrolling the Veranda.

The 2 earth wires are connected using separate clamps. Do the same for the 2 neutral wires.

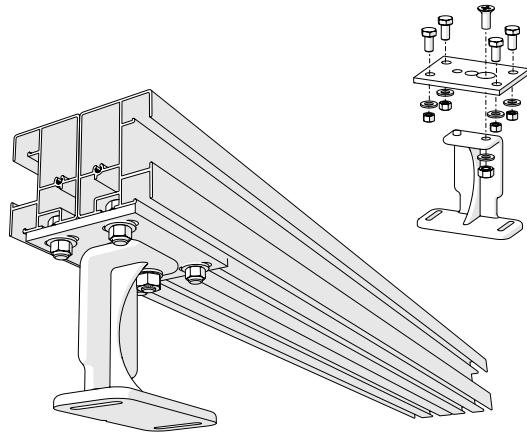


## Method for coupling 2 guide rails

In some cases we have to couple 2 guide rails (when 2 or more systems are mounted beside one another. This can be done in different ways.

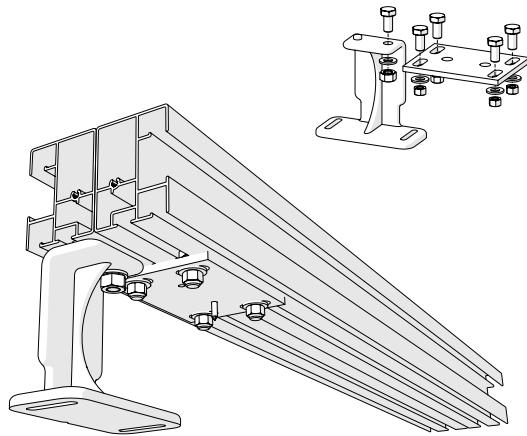
### Mounting the base attachment point in the middle

The coupling plate is fixed directly underneath both guide rails. The standard attachment point is fixed on the coupling plate.



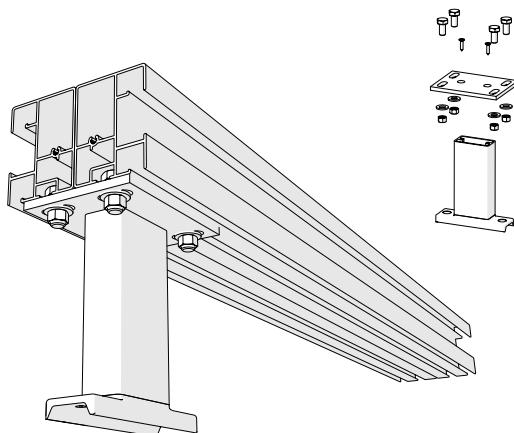
### Mounting the attachment point high profile in the middle

The upper part of the high profile attachment point is replaced by the coupling plate. The coupling plate is fixed underneath both guide rails.

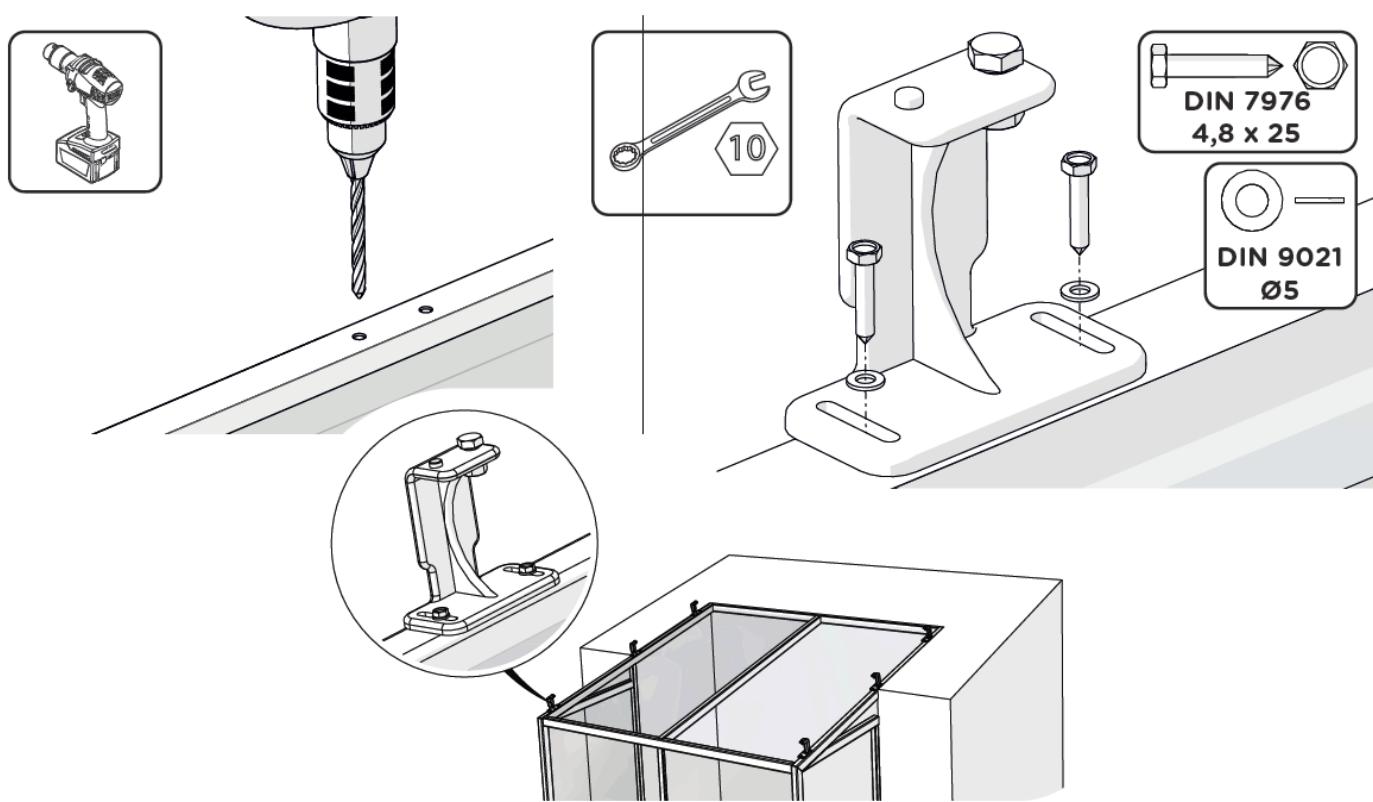
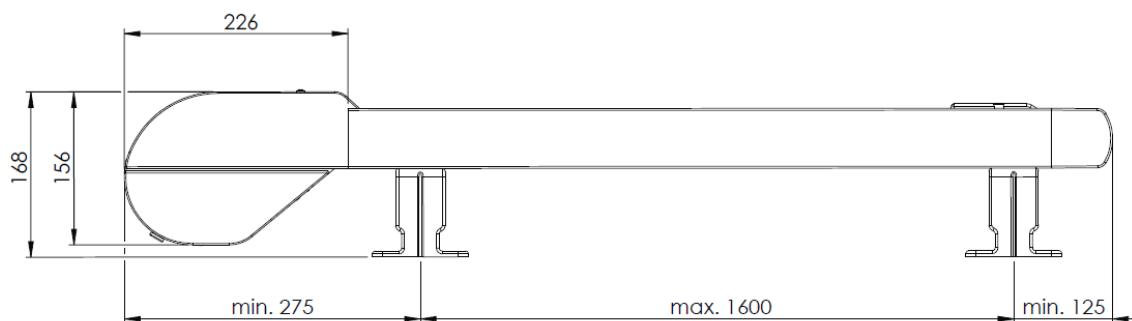
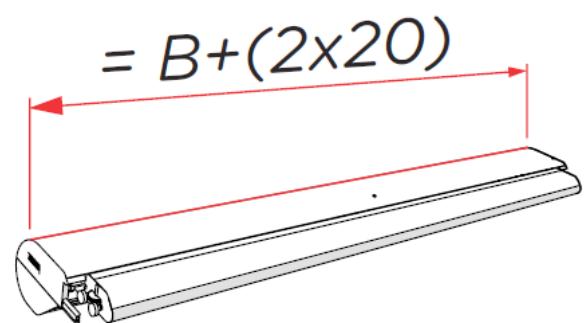
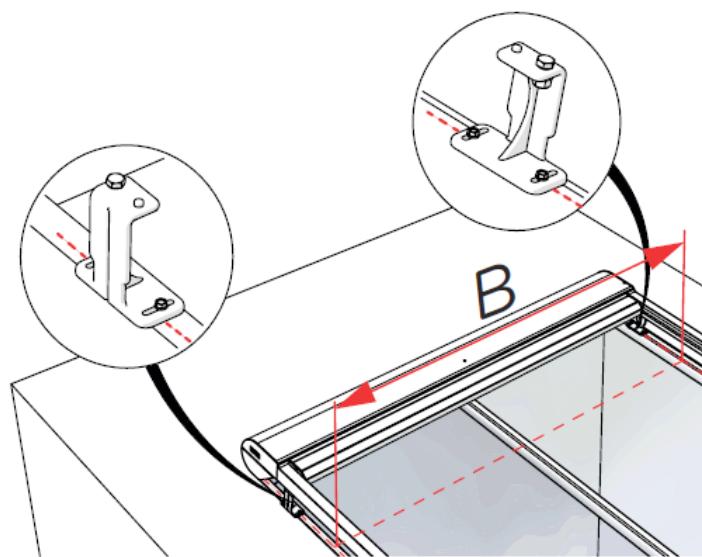
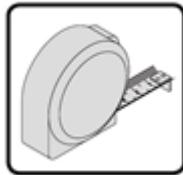


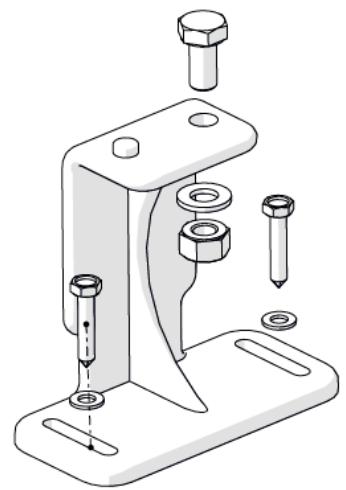
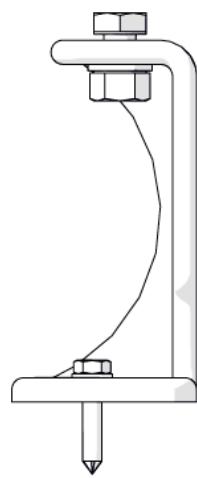
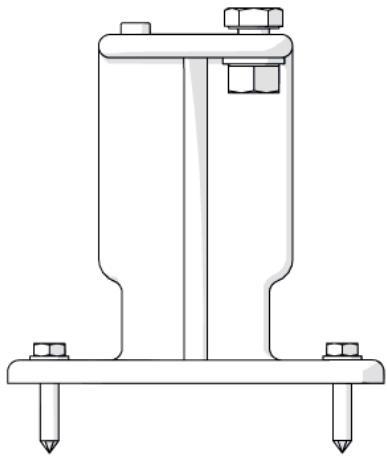
### Mounting the attachment point underneath the left or the right guide rail

The coupling plate is fixed in front of or behind the used attachment point.

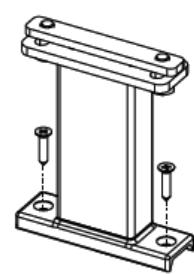
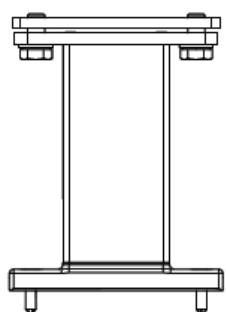


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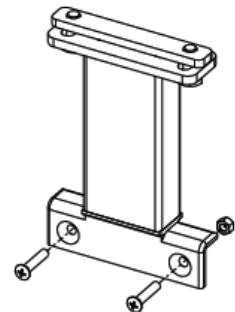
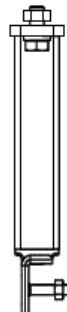
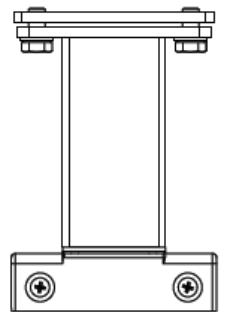




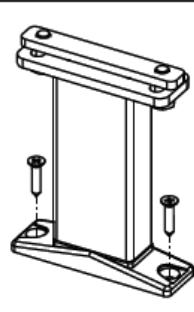
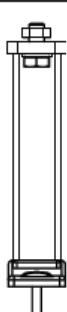
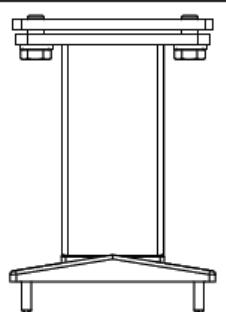
**Av**



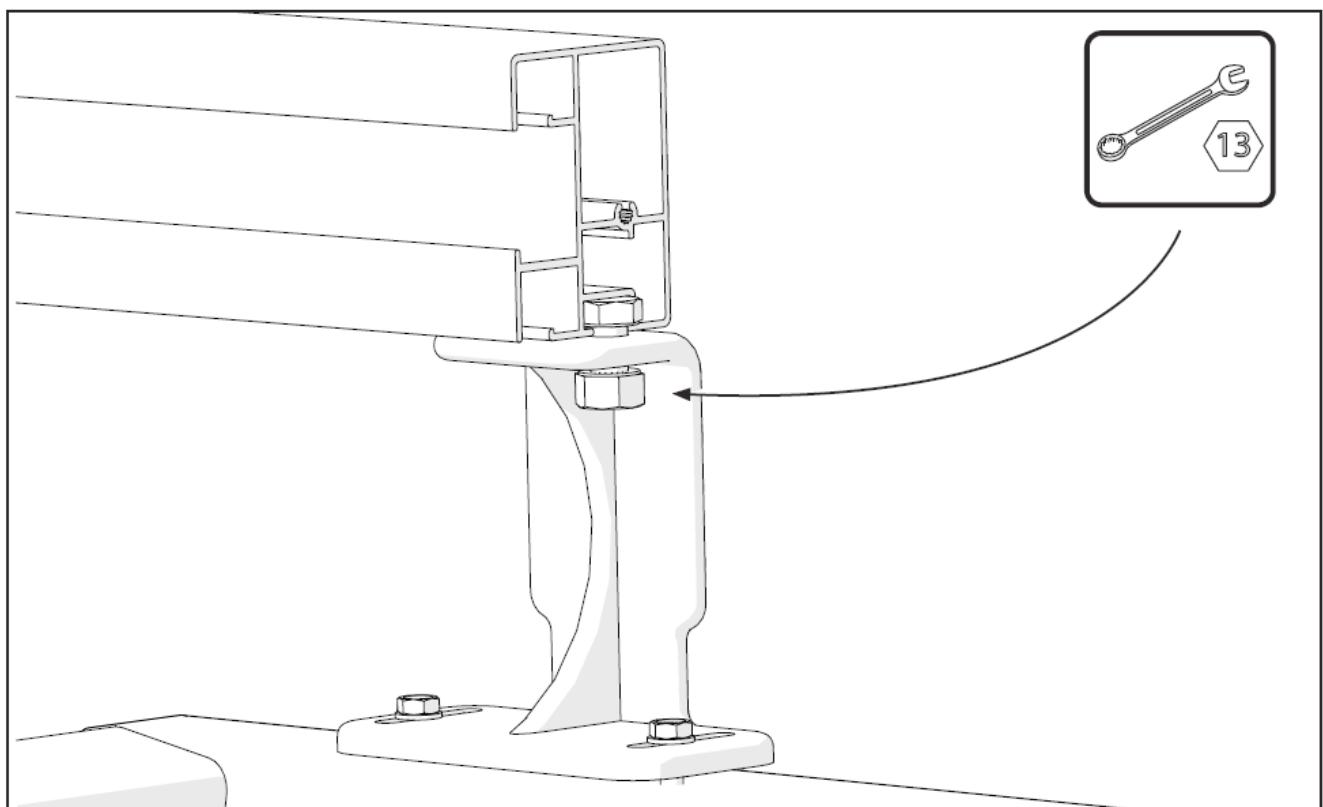
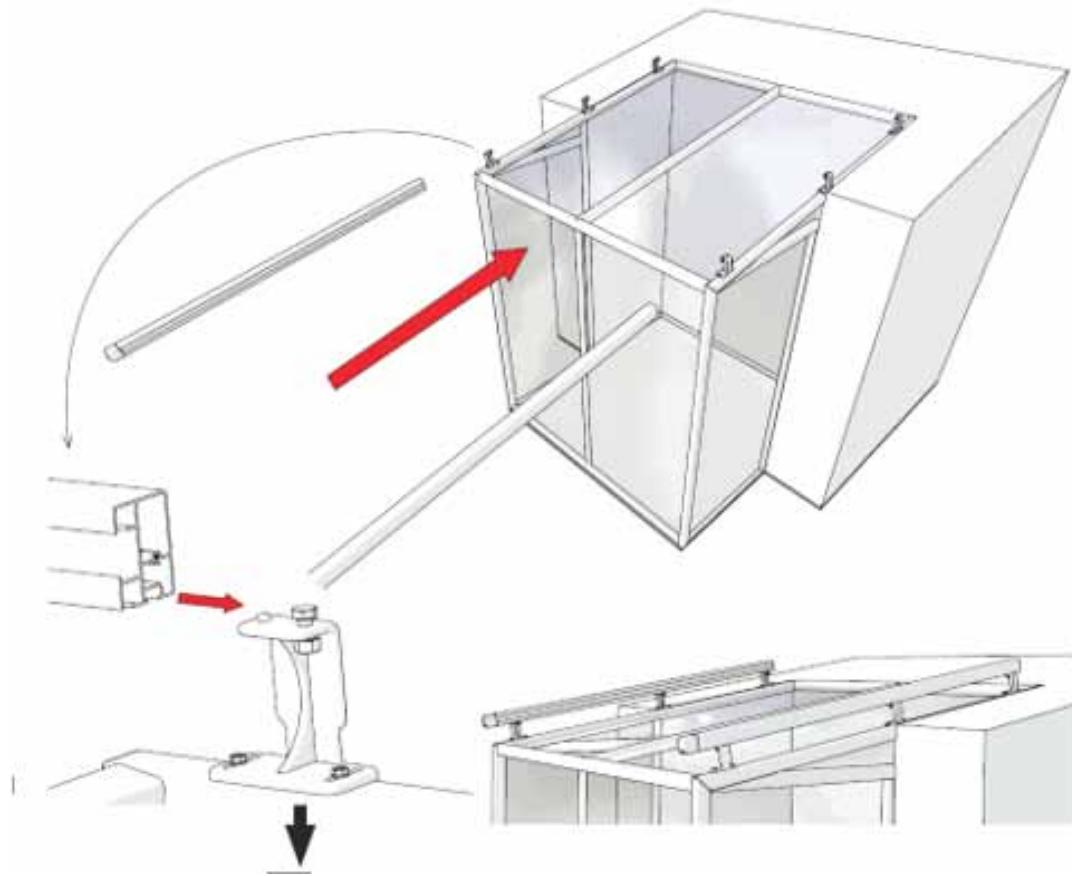
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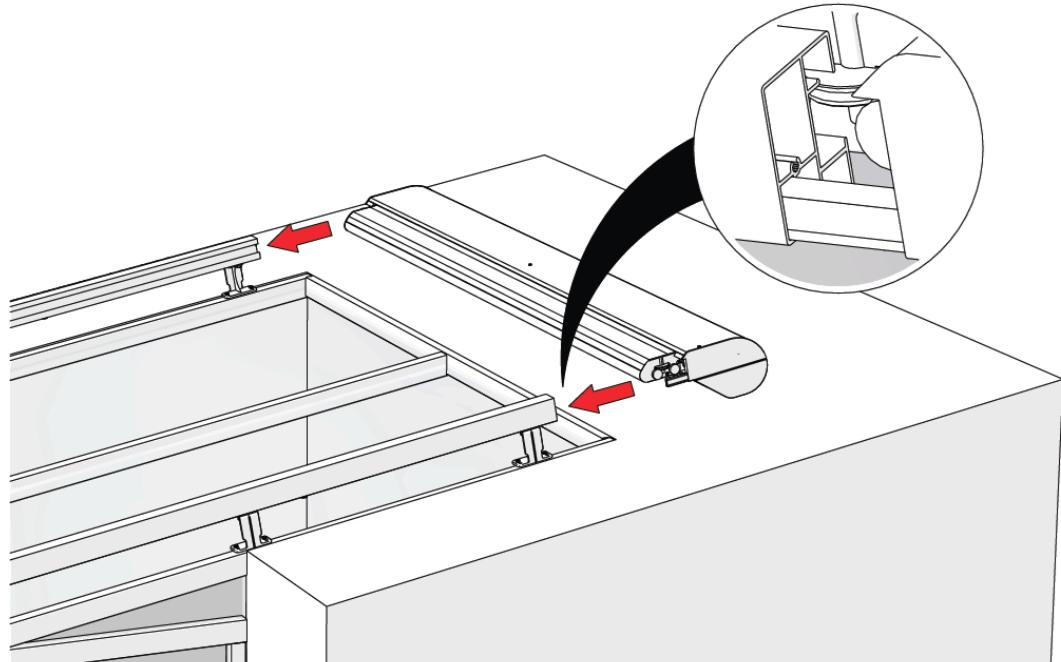
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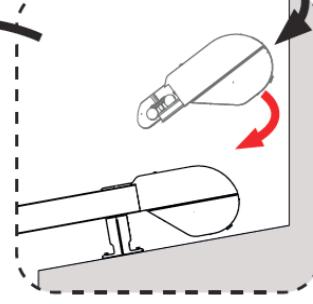
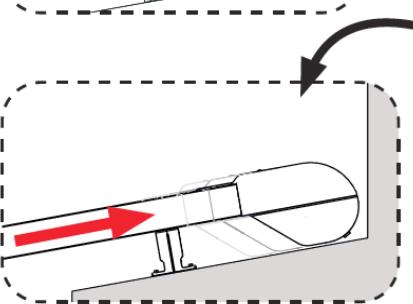
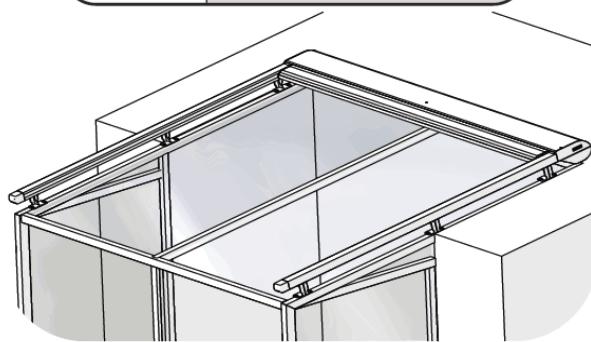
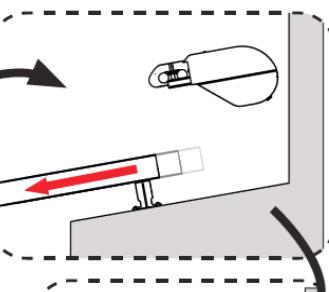
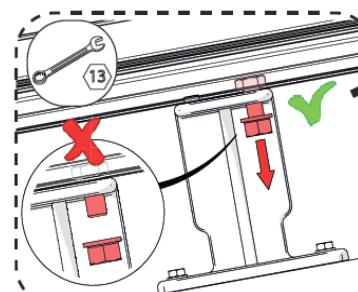
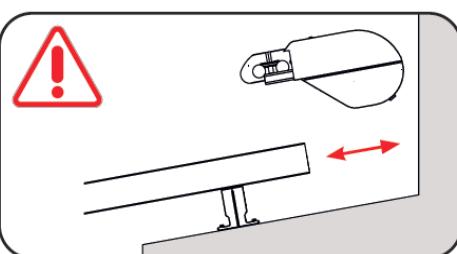
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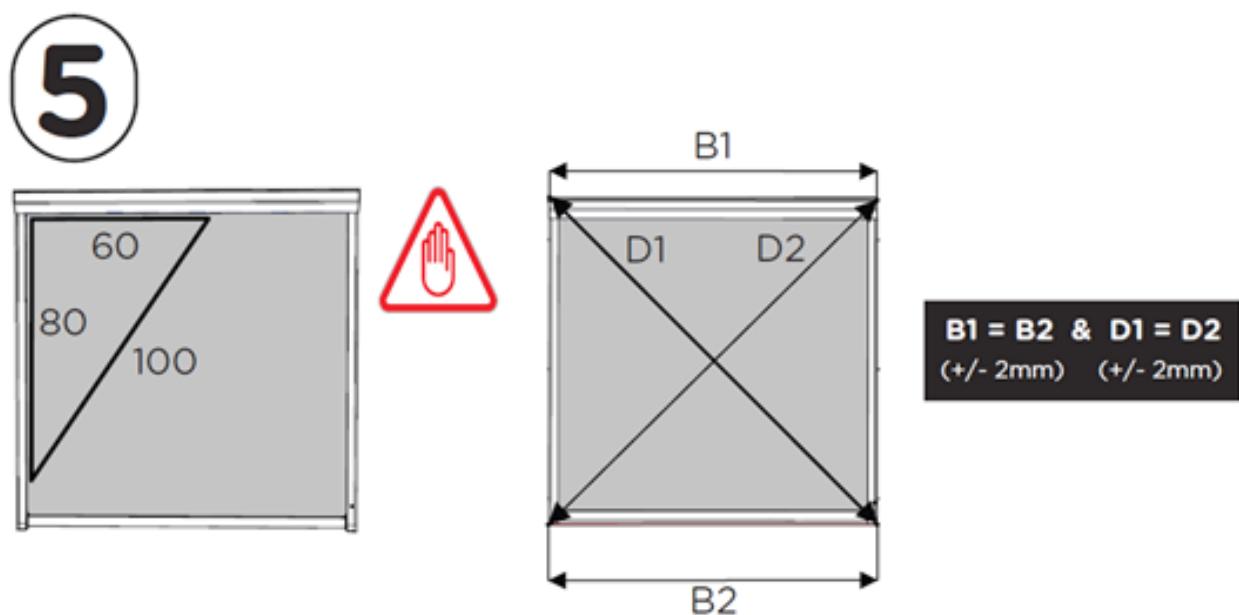
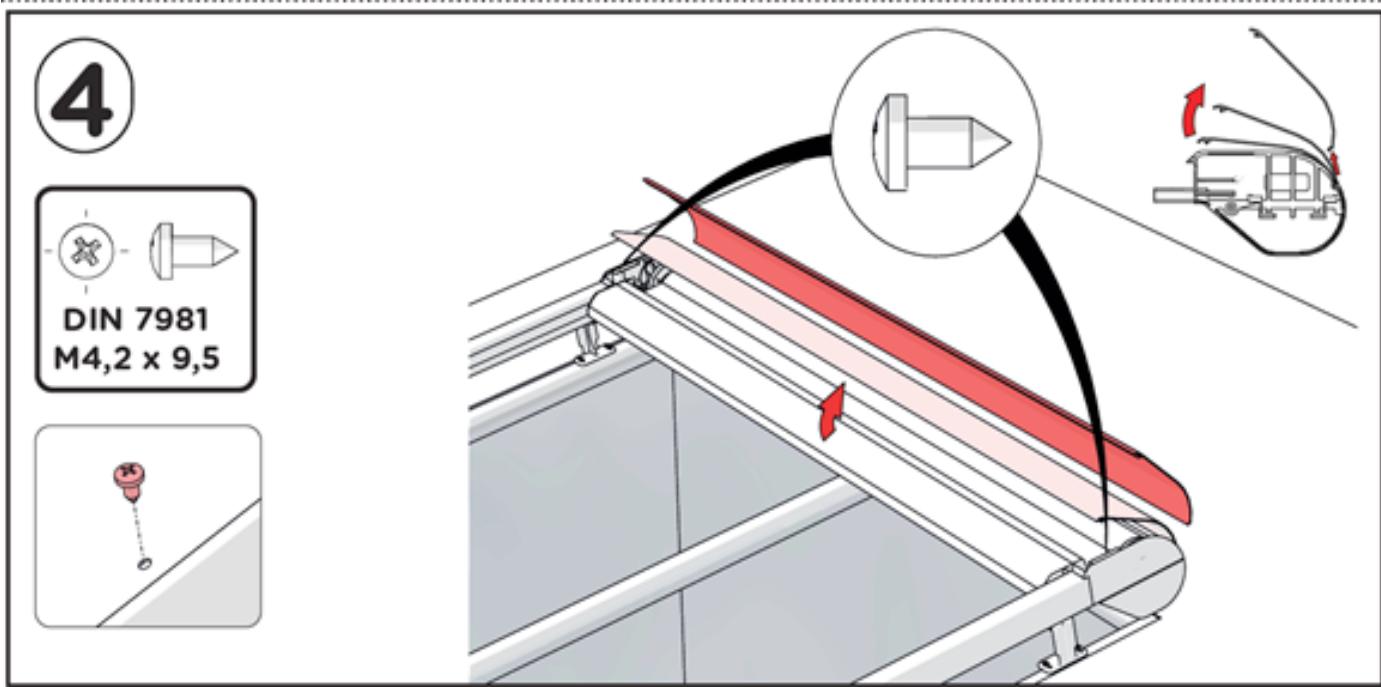


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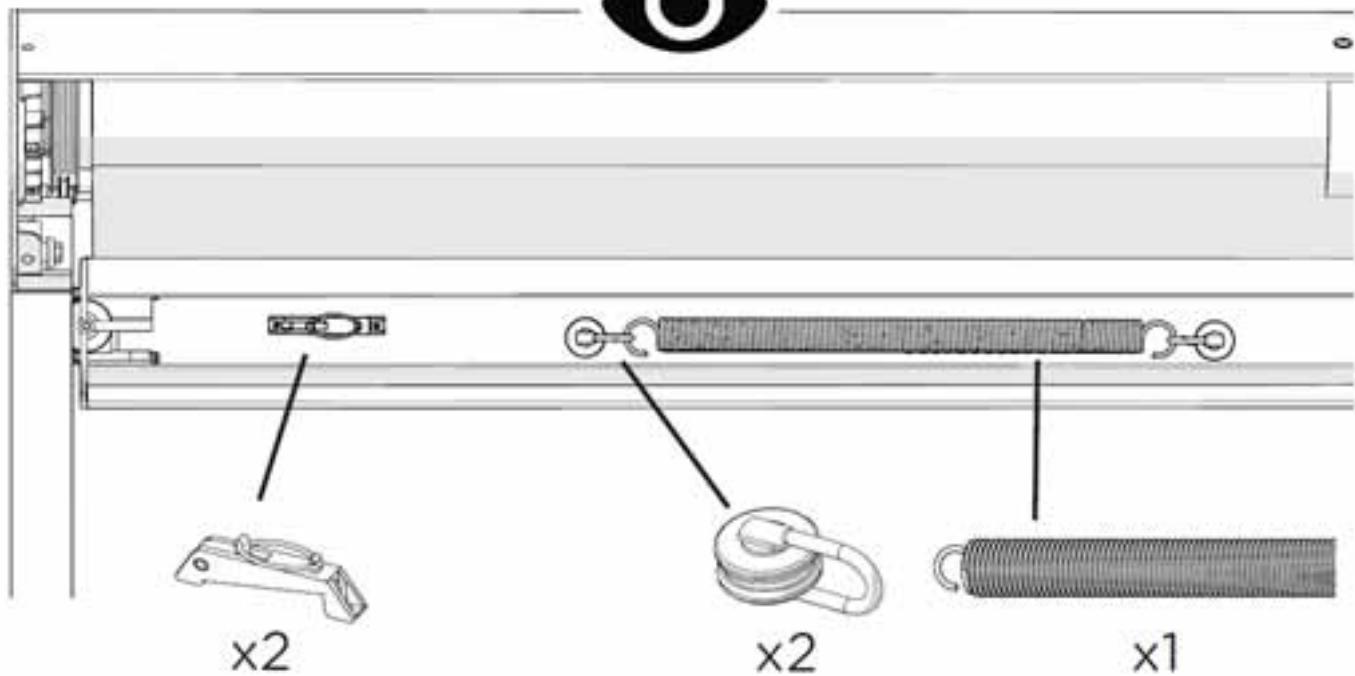
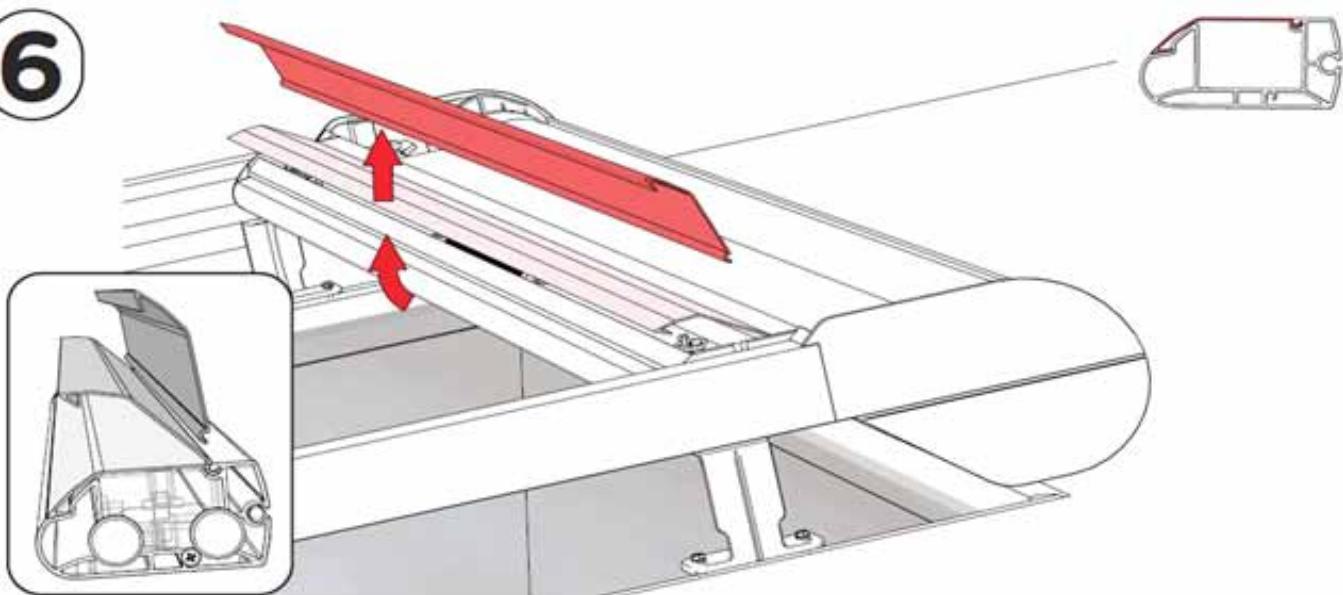


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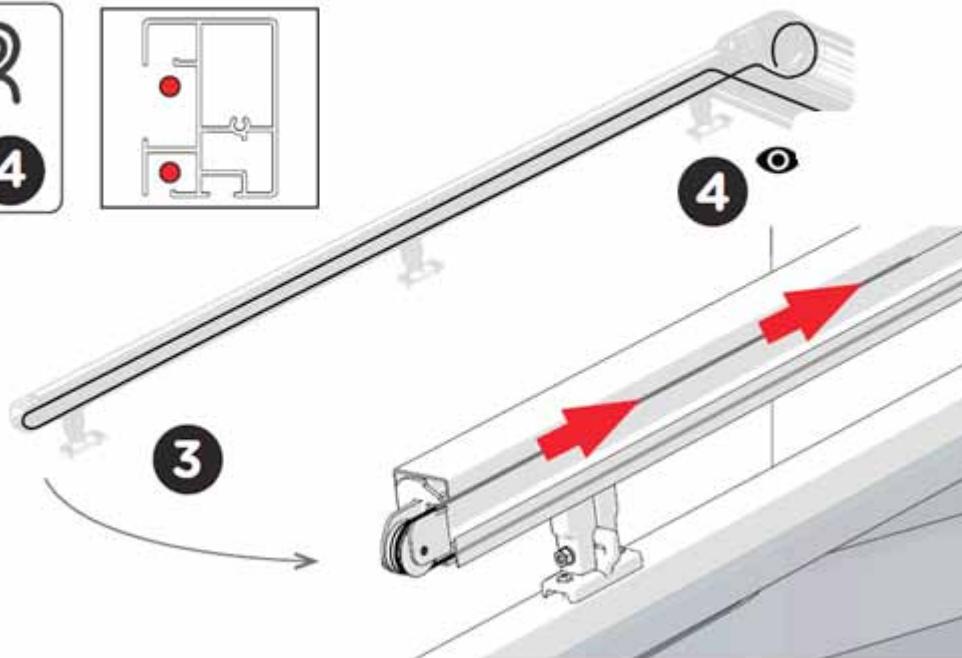
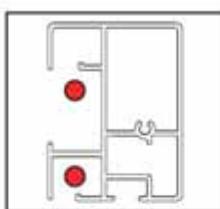
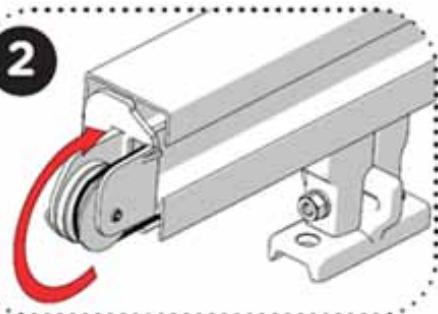
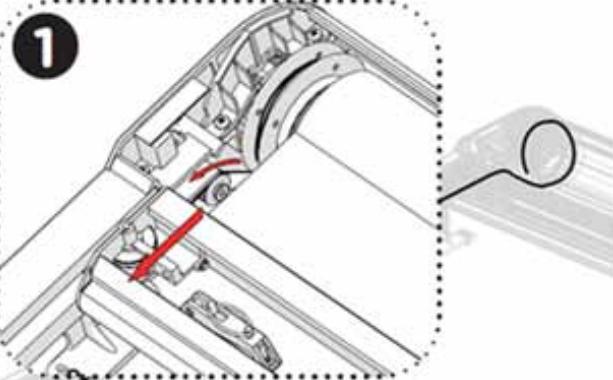
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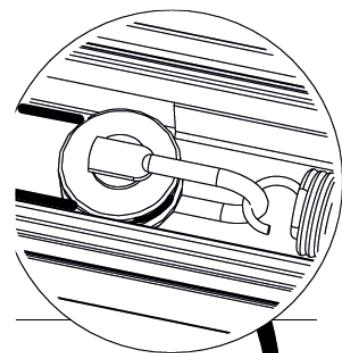
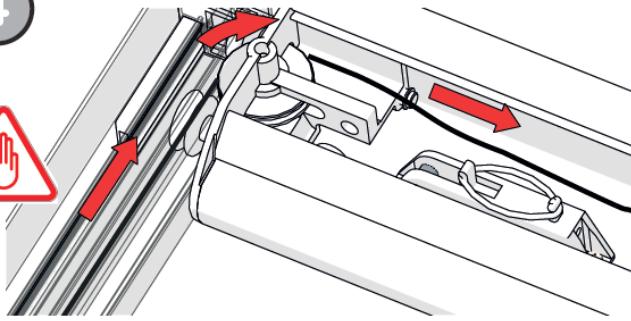
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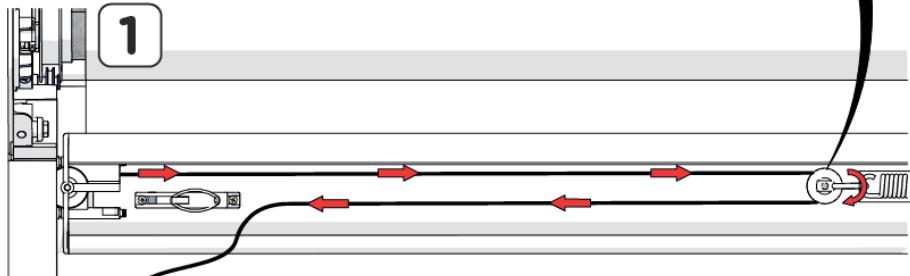
CHECK THAT AT LEAST 2 OR 3 TURNS OF CABLE ARE LEFT ON THE CABLE PULLEY.



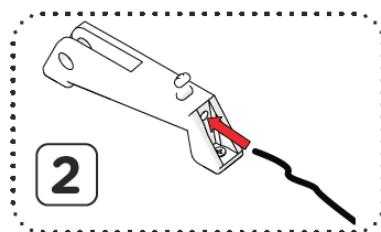
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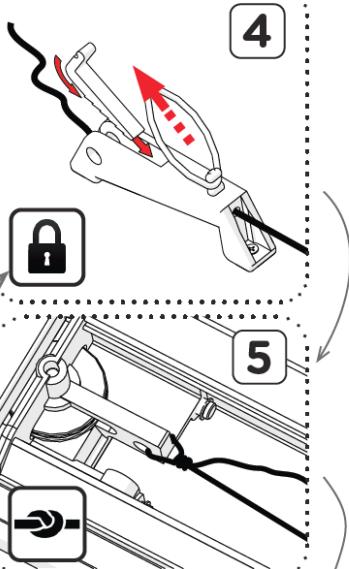
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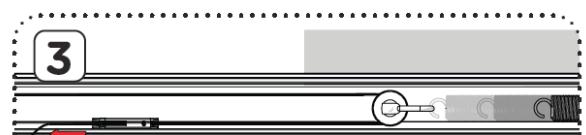
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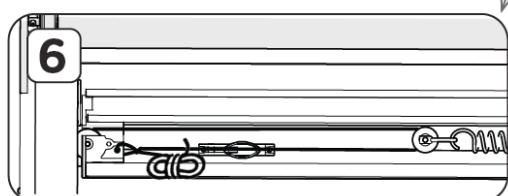
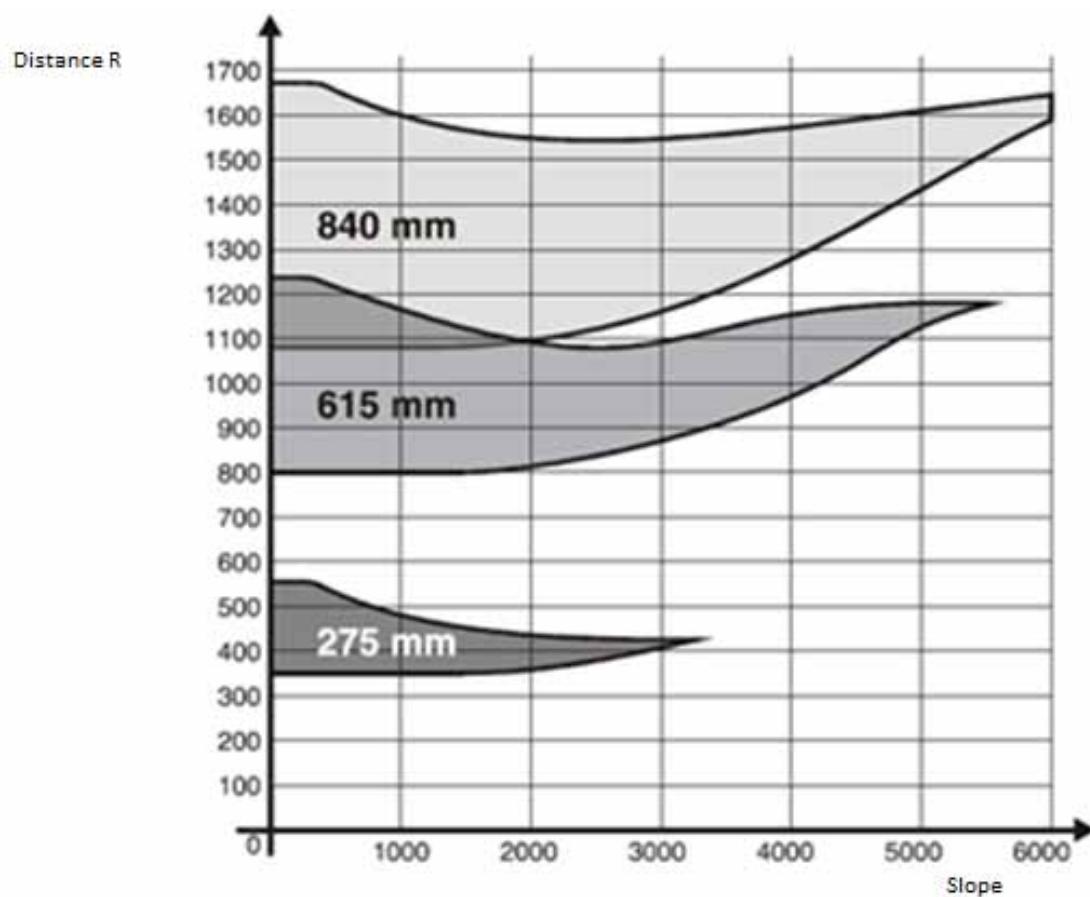
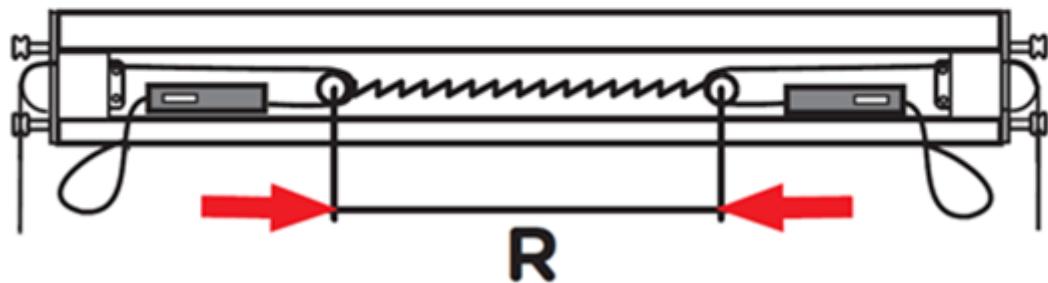
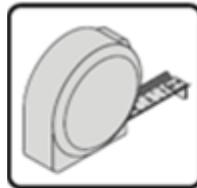
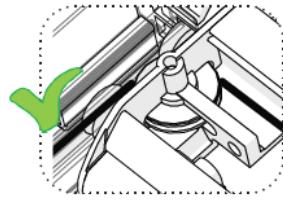
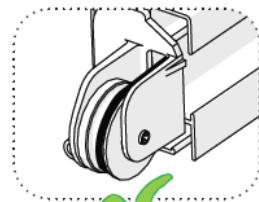
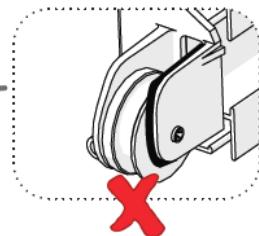
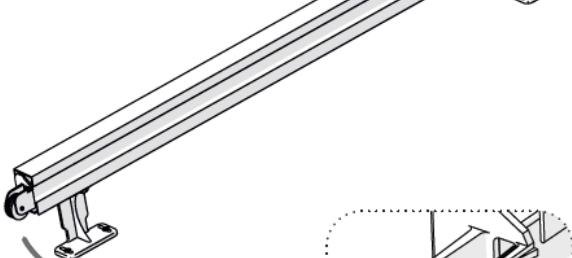
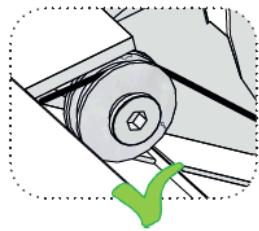
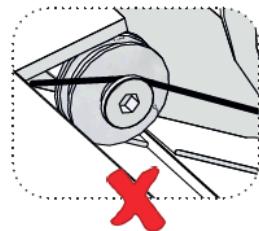


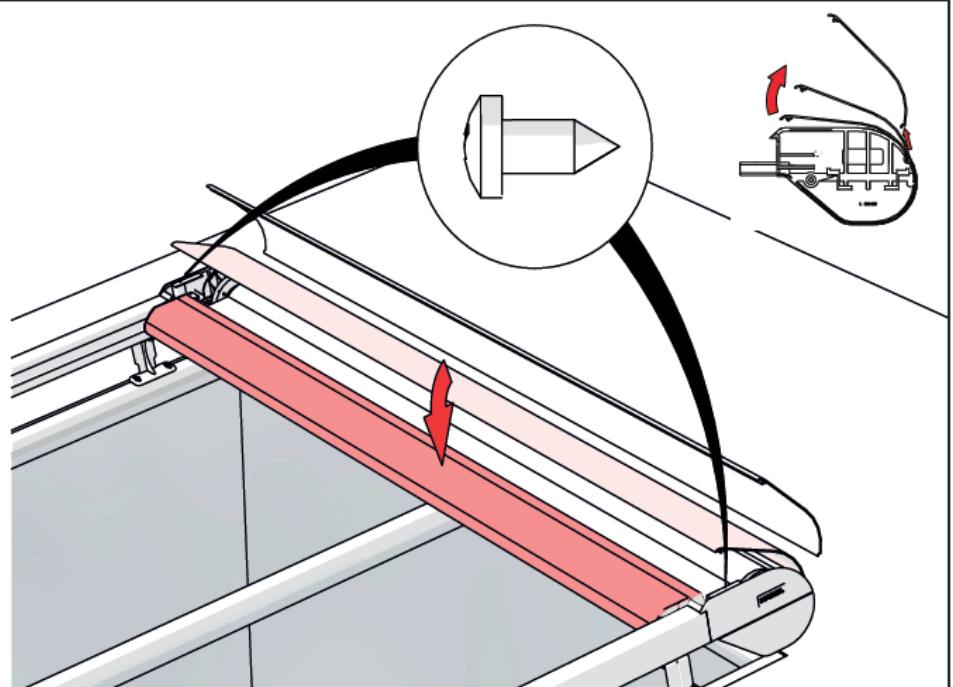
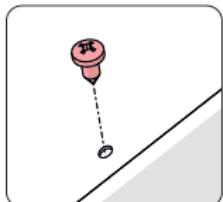
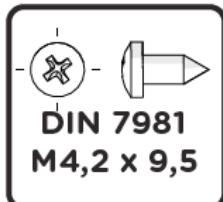
Table spring distance R (in mm)

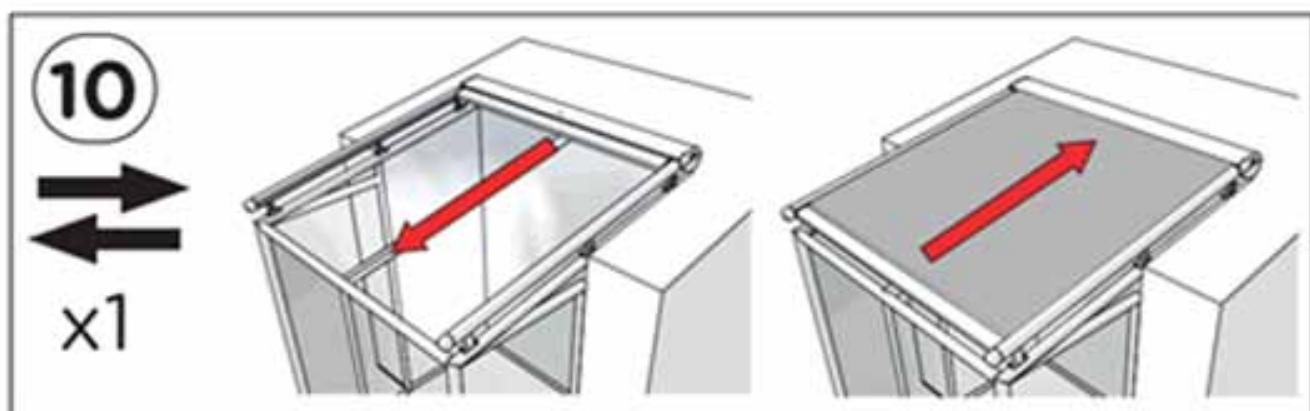
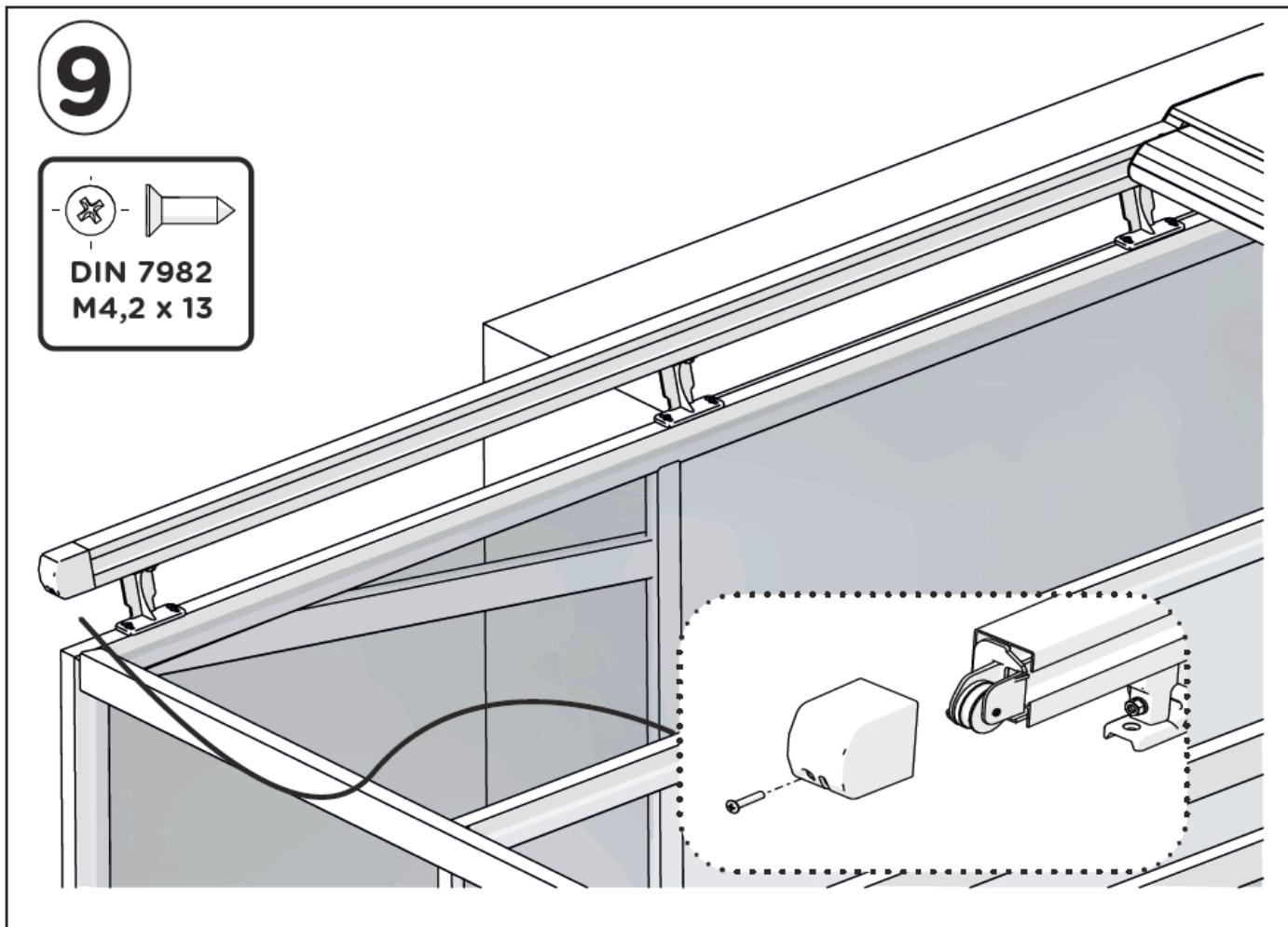


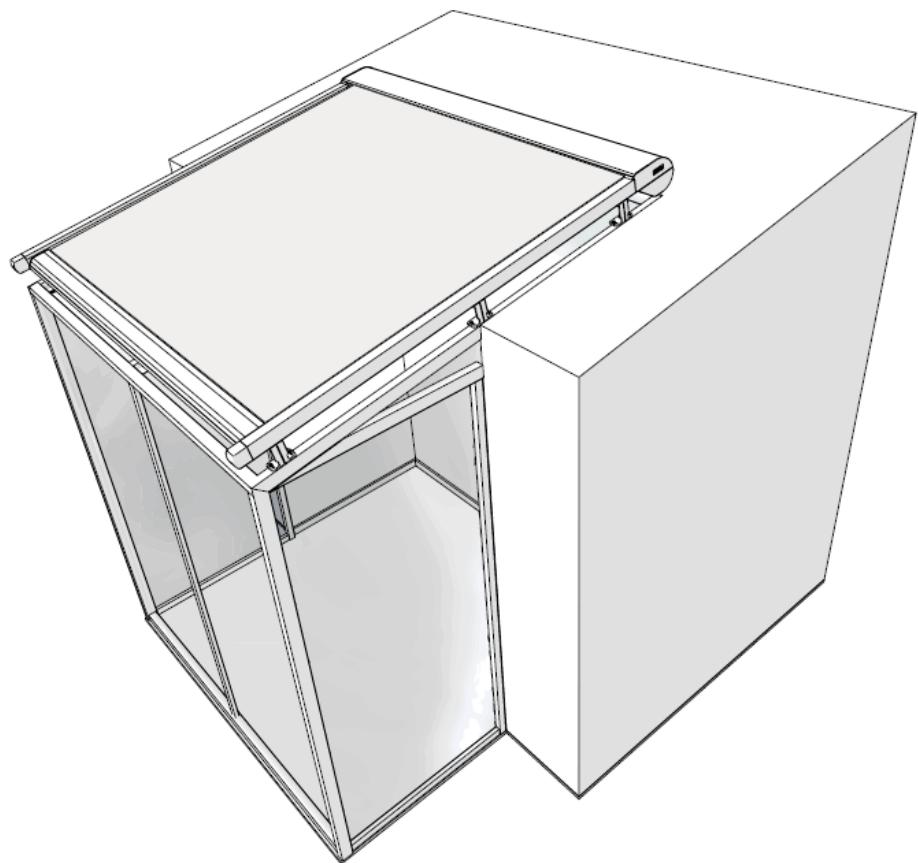
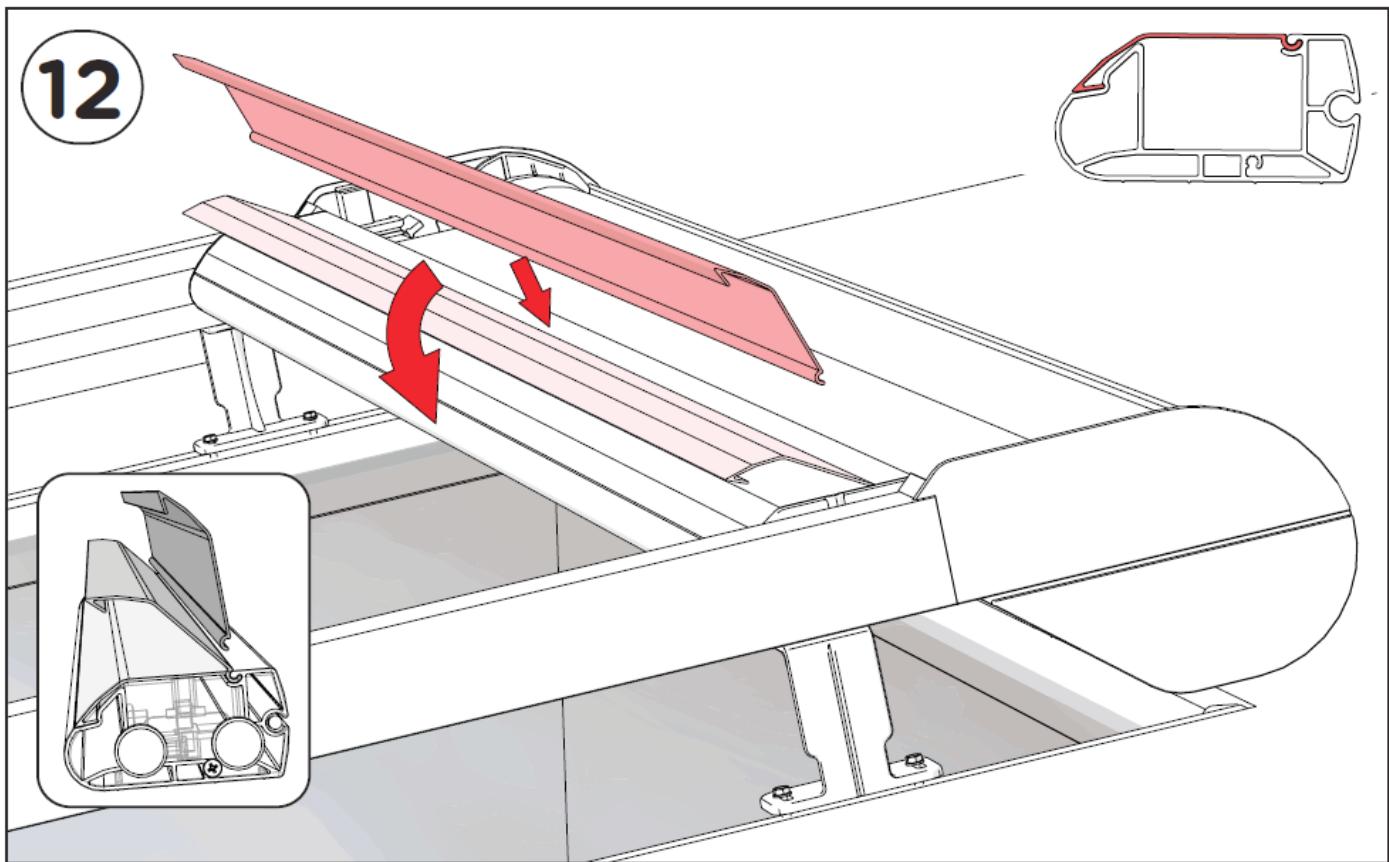
DEPENDING ON THE TYPE OF SPRING (650 MM / 850 MM), READ DISTANCE R IN COLORED ZONE.

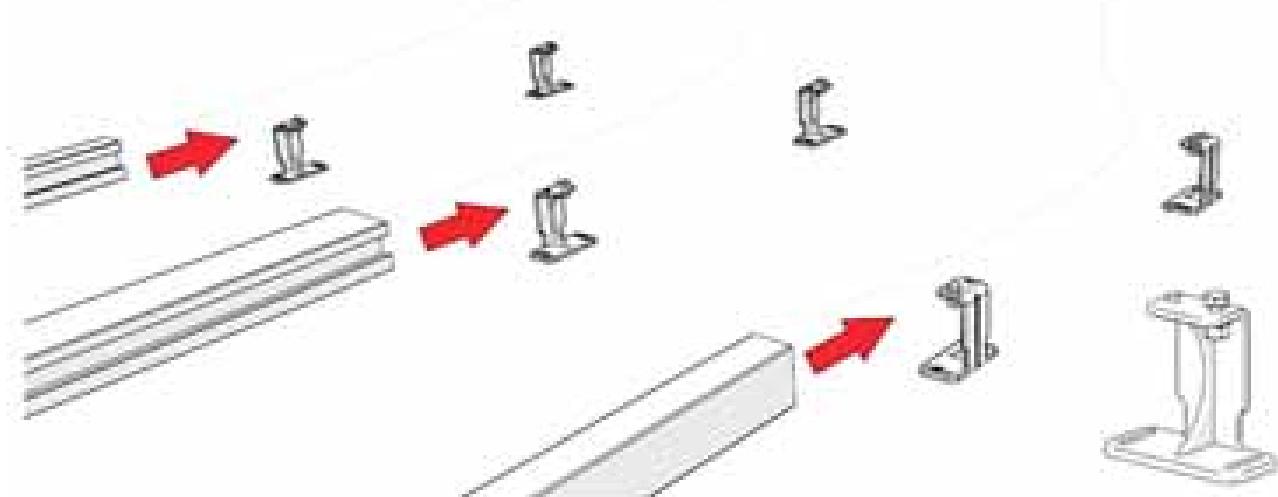
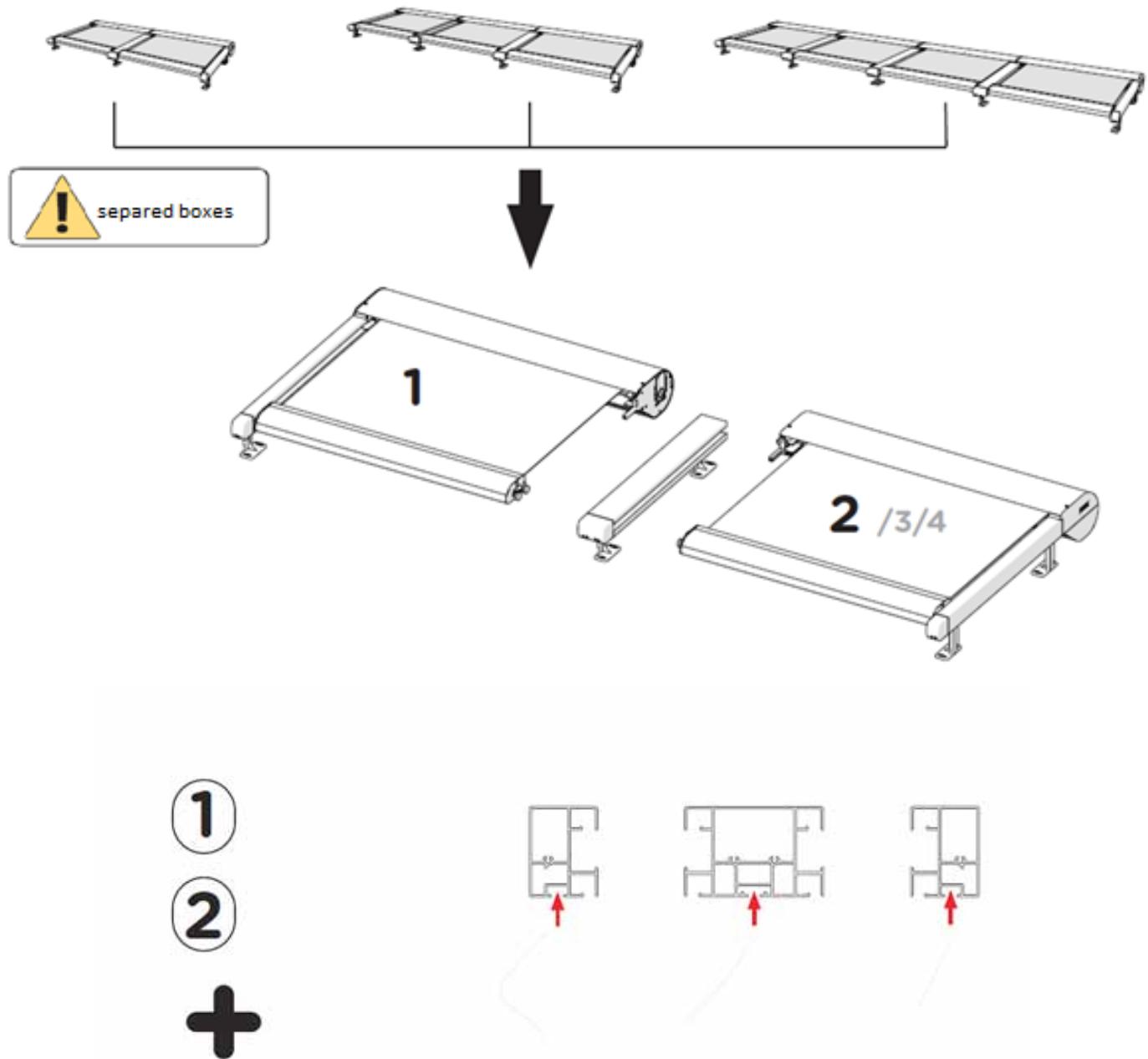


**8**



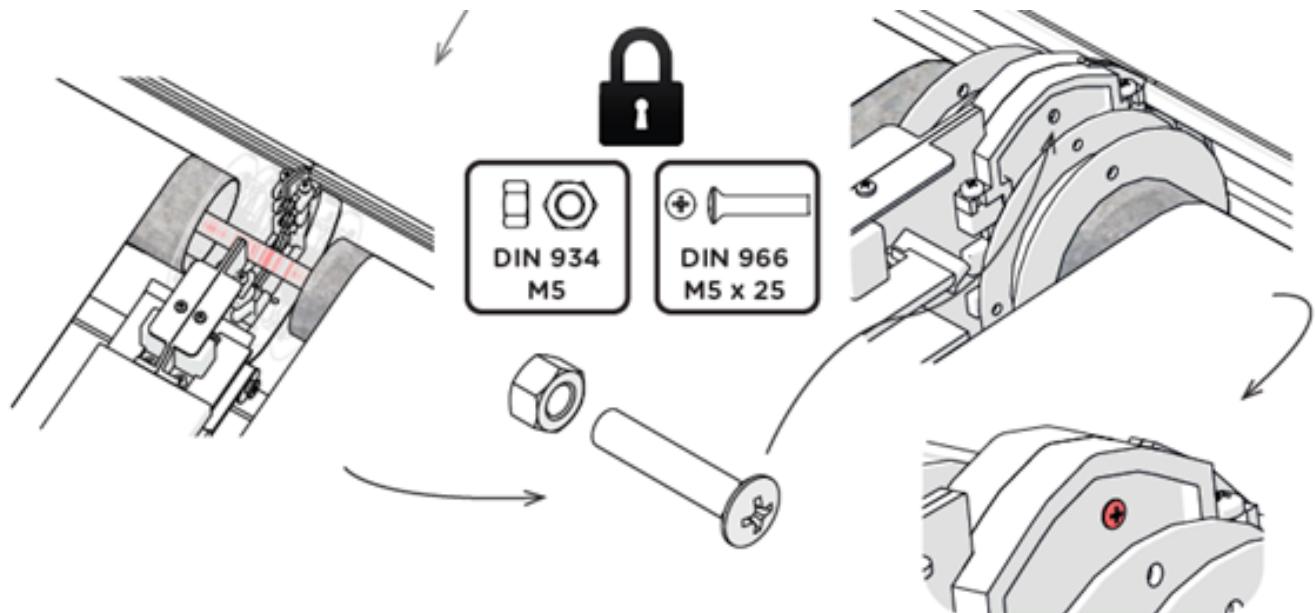
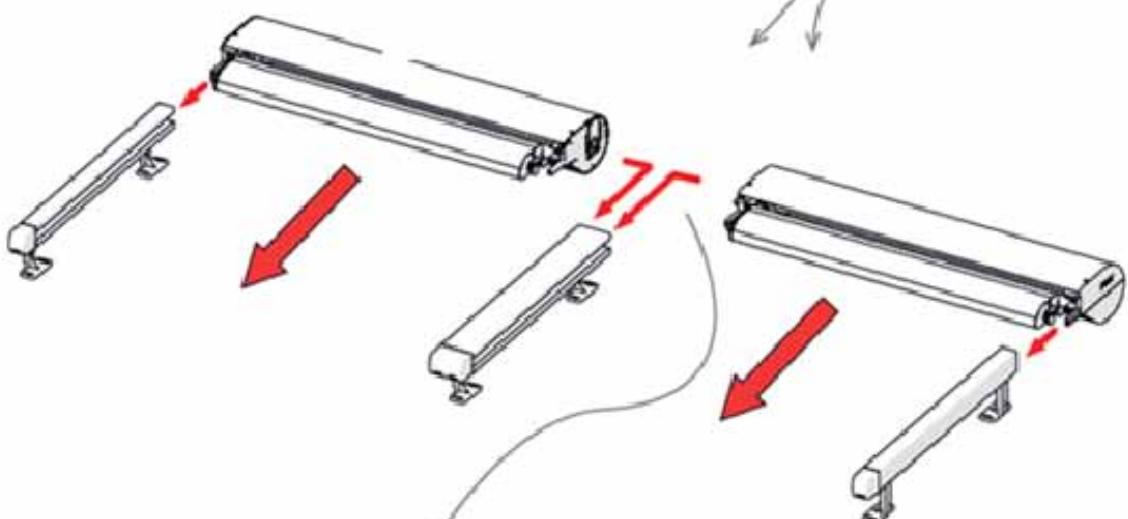




**Coupled**

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12

## Veranda HRV08-ZIP

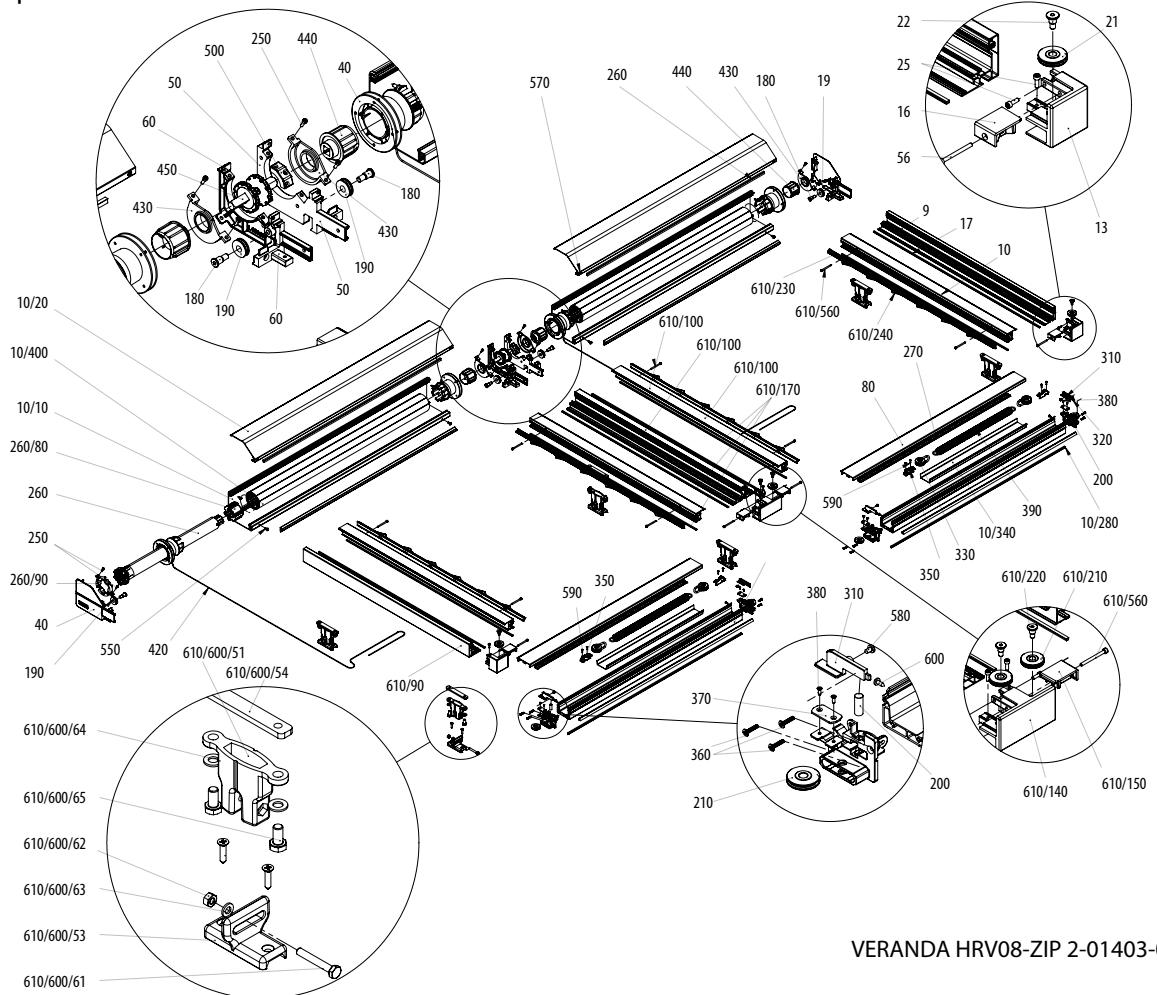


- ▲ Fabric stays stretched longer due to innovative ZIP system with metal spring
- ▲ Compact box helps to create timeless design of Veranda
- ▲ Possibility to connect up to 4 pcs together (common box up to 6 m width of the blind)
- ▲ System variability (fabric can be rolled sideways, bottom-top and top-bottom)
- ▲ It can be mounted from exterior or interior
- ▲ High wind resistance (up to 49 km/h)

**ISOTRA** Quality

# VERANDA HRV08-ZIP

## Basic Product Specification



### Control

**Motor** – tubular motor 230V (50 Hz) fitted far left and/or far right as required. As standard there is supplied 3 meters long cable (optionally 5 or 10 m), a single-pole surface-mounted switch and plug. Optionally motor with automatic readjustment Orea WT, motor with built-in RTS receiver Orea RTS or motor with built-in IO receiver Sunea IO.

### Fabrics

The fabrics are welded horizontally.

### Fabrics of the Blackout type:

The opaque layer is located on the side of the window for each type of installation. In the case of outdoor installation, strong winds can cause a slight lifting of the base slat and fabric and therefore 100% blackout cannot always be guaranteed. In the case of Blackout fabrics, the zippers are fastened on the face side and not on the opaque layer, so it is possible that under strong wind or oblique view of the guide rail a piece of cloth from the zipper tape can be seen, but this is of little importance compared to tightness of the fabric (reducing the waves).

### Specification

|                | Upper profile   | Bottom profile | Slide guidance |          | Assembly                                |
|----------------|---|----------------|----------------|----------|---|
|                |   |                | Guide rail     |          |   |
| Dimension (mm) | 134 x 118   | 65 x 50        | 57,5 x 56      | 109 x 56 | both from the interior and the exterior |
| Material       | Al  | Al             | Al             | Al       |   |
|                |   |                |                |          |   |
| Colour         | RAL 9010, RAL 9006, RAL 9007, RAL 8014, RAL 7016, RAL 7016S, DECORAL only up to 4000 mm width |                |                |          |   |

### Standard Dimensions

| Control                 | Width (mm) |      | Height (mm) | Guaranteed area (m <sup>2</sup> ) |
|-------------------------|------------|------|-------------|-----------------------------------|
|                         | min        | max  |             |                                   |
| motor                   | 850        | 3000 | 3500        | 10,5                              |
| motor, Assembly MT1,MT2 | 850        | 4000 | 3500        | 14                                |

## VERANDA HRV08-ZIP(2-01403-0000)

| position | item name                                    | trade name - abbreviation 2 | order number - abbreviation 1       |
|----------|--|-----------------------------|-------------------------------------|
| 10       | Profiles – VERANDA HRV08-ZIP                 |                             | see Profiles - VERANDA HRV08-ZIP    |
| 19       | Screen fabric                                |                             | see Soltis 92 screen fabric sampler |
| 20       | Fabric for Verandas                          |                             | see awnings fabric sampler          |
| 40       | Side cap - LEFT                              | VRH 004                     | 6-014684-0000                       |
| 50       | Side cap - central RIGHT                     | VRH 011                     | 6-014688-0000                       |
| 60       | Side cap - central LEFT                      | VRH 010                     | 6-014687-0000                       |
| 180      | Side cap peg Ø 10                            | VRH 012                     | 6-014700-0000                       |
| 190      | Reverse wheel for side-cap - 28x8mm          | VRH 094                     | 6-014597-0000                       |
| 200      | Pin smooth cylindrical 8x20,A2 DIN 7         | VRH 032                     | 6-014702-0000                       |
| 210      | Wheel for rope Ø2 mm - VZ080                 | VRH 029                     | 6-014703-0000                       |
| 250      | Screw inbus M4x12, DIN 912, A2               | VRH 101                     | 6-014705-0000                       |
| 260      | <b>Motors (SOMFY)</b>                        |                             | <b>viz strana 30</b>                |
| 300      | Bearing RIGHT - black                        | VRH 055                     | 6-014710-9004                       |
| 310      | Bearing cover - LEFT - BLACK - SET           | VRH 127                     | 6-014711-9004                       |
| 320      | Bearing cover - RIGHT - BLACK - SET          | VRH 128                     | 6-014712-9004                       |
| 330      | Wheel with fork for cord guiding HRV         |                             | 6-019123-0000                       |
| 350      | Fastening block - cl227                      | VRH 121                     | 6-014715-0000                       |
| 360      | Woodscrew 3,5x16 DIN 7982 C-H A2             | VRH 130                     | 6-014674-0000                       |
| 370      | Fastening board - 16x28x1,25, A2             | VRH 122                     | 6-014716-0000                       |
| 380      | Screw - WN 1413 - K25 x 8, A2                | VRH 100                     | 6-014717-0000                       |
| 390      | Spring - L=400 mm                            | VRH 091                     | 6-014718-0000                       |
| 410      | Cylinder cover Ø 67mm - long - VZ080 - BLACK | VRH 046                     | 6-014721-9004                       |
| 420      | HI - TEC cord 2 mm                           | VRH 022                     | 6-014722-0000                       |
| 430,432  | Holder adjustable - BLACK                    | VRH 067                     | 6-014723-9004                       |
| 440,442  | Cylinder cover 4square - BLACK               | VRH 044                     | 6-014724-9004                       |
| 450,452  | Rod connector                                | VRH 023                     | 6-014725-0000                       |
| 500      | Connector cover- BLACK                       | VRH 043                     | 6-014729-0000                       |
| 550      | Woodscrew 4,8x13 DIN 7982 C-H A2             | VRH 134                     | 6-014734-0000                       |
| 570      | Screw inbus M4x16, DIN 912, A2               | VRH 102                     | 6-014736-0000                       |
| 580      | Screw M4x6 stainless A2, DIN 7985-H          | VRH 105                     | 6-014737-0000                       |
| 590      | Woodscrew 2,9x13 DIN 7982 C-H A2             | VRH 129                     | 6-014738-0000                       |
| 600      | Woodscrew 3,5x9,5 DIN 7981 CH, A2            | VRH 131                     | 6-014739-0000                       |
| 610      | <b>Guiding - rail - LEFT</b>                 |                             | <b>see Guiding - rail - left</b>    |
| 620      | <b>Guiding - rail - RIGHT</b>                |                             | <b>see Guiding - rail - right</b>   |

## Profiles - VERANDA HRV08-ZIP (3-03077-PU11)

| position | item name                            | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|--------------------------------------|-----------------------------|-------------------------------|
| 43383    | BOX profile - cover                  | VRH 070                     | 6-014682-0000                 |
| 44105    | BOX profile - bottom                 | VRH 068                     | 6-014683-0000                 |
| 25842    | Bottom profile                       | VRH 072                     | 6-014689-0000                 |
| 29495    | Bottom profile - cover               | VRH 074                     | 6-014690-0000                 |
| 10/280   | Sealing rofile - ad 33/ad 42 - black | VRH 085                     | 6-014708-9004                 |
| 10/270   | Holder adjustable - BLACK            | VRH 066                     | 6-014707-9004                 |
| 10/340   | Rubber pad 1x40mm - black            | VRH 020                     | 6-014714-0000                 |
| 10/400   | Winding roller Ø 67x1,25mm - 6m      | VRH 125                     | 6-014720-0000                 |

**Guiding - rail HRV08-ZIP - left (2-01405-PU11L)**

| <b>position</b> | <b>item name</b>                      | <b>trade name - abbreviation 2</b> | <b>order number - abbreviation 1</b> |
|-----------------|---------------------------------------|------------------------------------|--------------------------------------|
| 610/90          | Guiding channel profile               | VRH 088                            | 6-014691-0000                        |
| 610/100         | Guiding channel profile - cap         | VRH 089                            | 6-014692-0000                        |
| 610/110         | Guiding channel profile - double      | VRH 086                            | 6-014693-0000                        |
| 610/140         | Guiding channel end - cap - central   | VRH 039                            | 6-014696-0000                        |
| 610/150         | Guiding channel cover - left          | VRH 049                            | 6-014697-0000                        |
| 610/170         | Brush for guiding channel 8mm - black | VRH 025                            | 6-014699-9004                        |
| 610/210         | Wheel for rope Ø 2 mm                 | VRH 029                            | 6-014703-0000                        |
| 610/220         | Peg for guiding channel Ø 8           | VRH 013                            | 6-014704-0000                        |
| 610/230         | Guiding profile for zip               | ZPH 145                            | 6-014155-0000                        |
| 610/240         | Spring of guiding channel ZIP         | ZPH 147                            | 6-013992-0000                        |
| 610/560         | Screw inbus M4x45, DIN 912, A2        | VRH 103                            | 6-014735-0000                        |
| 610/600/51      | Holder low                            | VRH 018                            | 6-014730-0000                        |
| 610/600/53      | Holder anchorage                      | VRH 117                            | 6-014732-0000                        |
| 610/600/54      | Assembly board 15x75x5 mm             | VRH 059                            | 6-014733-0000                        |
| 610/600/61      | Screw M6x40, Zn DIN 933, A2           | VRH 111                            | 6-014740-0000                        |
| 610/600/62      | Nut M6 DIN 934, A2                    | VRH 057                            | 6-014741-0000                        |
| 610/600/63      | Pad M6, DIN 125-1A, A2                | VRH 064                            | 6-014742-0000                        |
| 610/600/64      | Pad M8, DIN 125 A2                    | VRH 065                            | 6-014632-0000                        |
| 610/600/65      | Screw M8x16, DIN 933, A2              | VRH 112                            | 6-014641-0000                        |

**Guiding - rail HRV08-ZIP - right (2-01405-PU11P)**

| <b>position</b> | <b>item name</b>                  | <b>trade name - abbreviation 2</b> | <b>order number - abbreviation 1</b> |
|-----------------|-----------------------------------|------------------------------------|--------------------------------------|
| 620/130         | Guiding channel end - cap - right | VRH 037                            | 6-014694-0000                        |
| 620/160         | Guiding channel cover - right     | VRH 050                            | 6-014698-0000                        |
| 620/210         | Wheel for rope Ø 2 mm             | VRH 029                            | 6-014703-0000                        |
| 620/220         | Peg for GCH End-cap Ø 8           | VRH 013                            | 6-014704-0000                        |
| 620/250         | Screw inbus M4x12, DIN 912, A2    | VRH 101                            | 6-014705-0000                        |
| 620/560         | Screw inbus M4x45, DIN 912, A2    | VRH 103                            | 6-014735-0000                        |

**Weight**

| <b>box</b>    |                     | <b>2 lateral guides</b> |                       | <b>coupling guide</b> |               |
|---------------|---------------------|-------------------------|-----------------------|-----------------------|---------------|
| <b>length</b> | <b>weight</b>       | <b>length</b>           | <b>weight</b>         | <b>length</b>         | <b>weight</b> |
| 1,0 m         | approximately 13 kg | 0,5 m                   | approximately 2 kg    | 0,5 m                 | 2 kg          |
| 1,5 m         | approximately 17 kg | 1,0 m                   | approximately 4 kg    | 1,0 m                 | 3,5 kg        |
| 2,0 m         | approximately 21 kg | 1,5 m                   | approximately 6 kg    | 1,5 m                 | 5,5 kg        |
| 2,5 m         | approximately 24 kg | 2,0 m                   | approximately 8,5 kg  | 2,0 m                 | 7,5 kg        |
| 3,0 m         | approximately 28 kg | 2,5 m                   | approximately 10,5 kg | 2,5 m                 | 9 kg          |
|               |                     | 3,0 m                   | approximately 12,5 kg | 3,0 m                 | 11 kg         |
|               |                     | 3,5 m                   | approximately 14,5 kg | 3,5 m                 | 13 kg         |

For a HRV08-ZIP with a width of 1.5 metres and a height of 1 metre, the total weight is approx. 20.5 kg.

## VERANDA HRV08-ZIP

### Basic Product Specification

#### The box

Material: extruded aluminium with powder coating

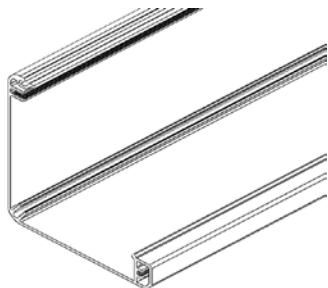
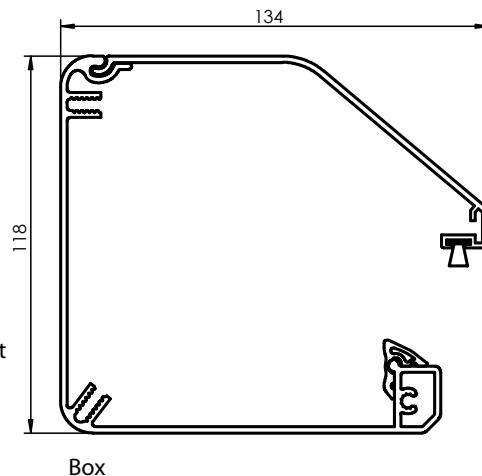
Wall thickness: 2 mm

Dimensions: 134 mm x 118 mm

Consists of two sections:

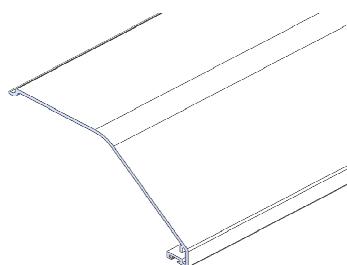
- a removable chamfered upper section or cover;
- a fixed lower section.

A fabric guide profile is attached to the fixed section, which guides the fabric out of the box. A brush is secreted in the cover.



**Box - underside** (6-014682-0000)

**Box - cover** (6-014683-0000)



#### Bottom profile

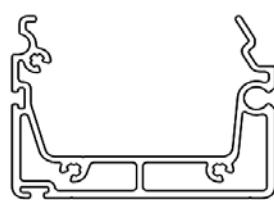
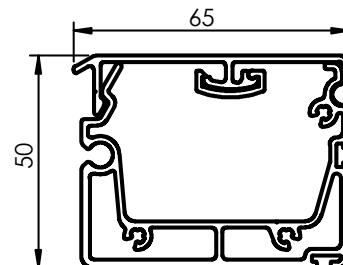
Material: extruded aluminium with powder coating

Wall thickness: basic section 2 mm

Locking profile 1.5 mm

Function:

- The basic section is provided with a groove to which the fabric can be attached.
- A locking profile: is clipped on to the basic section.
- Runs along the grooves in the lateral guides via specially designed sliding blocks.



**Bottom profile** (6-014689-0000)

**Bottom profile - cover** (6-014690)

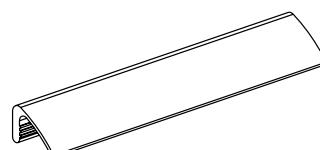
#### Clip-On/Clip-Off profile

Material: extruded PVC clips.

Function: Fixing the fabric in the groove without use of screws, so that the fabric can be taken out in a forward direction, rather than being pushed out sideways.

Handle diameter 3 mm.

Advantage: quick and easy change of fabric

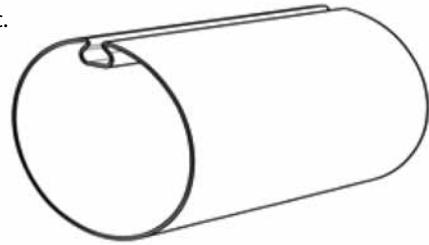


### **The fabric roll dia. 67x1,25 mm - 6 m (6-014720-0000)**

Material: circular extruded tube made of aluminium, with a groove for attaching the fabric.

Function: rolling the fabric up and down

Diameter: Ø67 x 1.8 mm.



### **The separable guide rails**

Material: extruded aluminium with powder coating

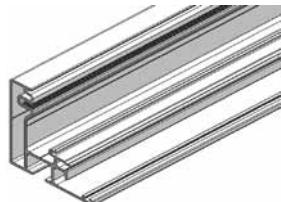
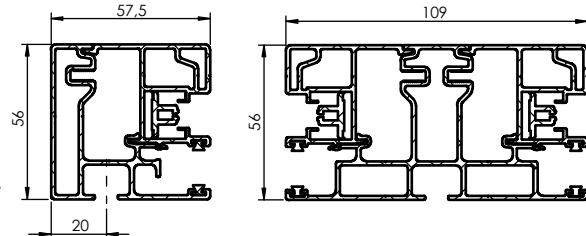
Wall thickness: 1.5 mm

Two types:

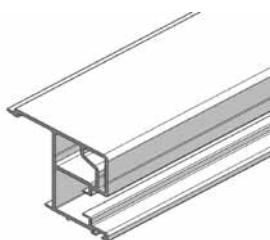
- Lateral guides: installed on outer sides, with a rail slot on one side only.
- Coupling guides: installed in the middle, with a rail slot on either side.

The profiles have a hollow chamber into which the support pins of the side caps fit.

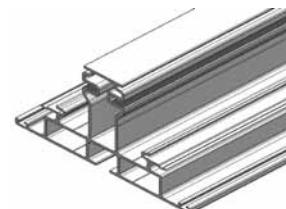
Aluminium end caps coated to match the frame.



**Guide rail profile (6-014691-0000)**



**Guide rail profile - cover (6-014692-0000)**

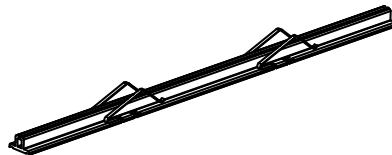


**Guide rail profile - double (6-014693-0000)**

### **Zipper guide profile**

Material: extruded PVC clip profile

Function: Absorption of the zipper profile on the fabric to keep the fabric tensioned with the aid of stainless steel springs.



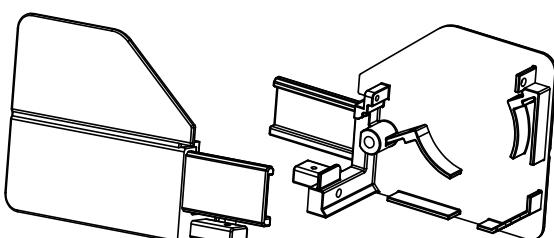
### **The consoles**

Material: high-pressure-cast aluminium with powder coating.

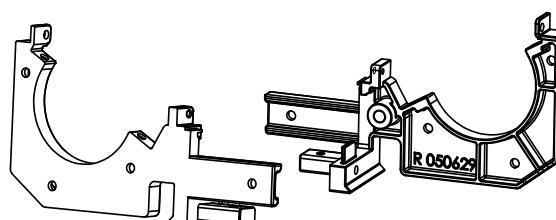
Colour: colour of frame.

Dimensions: 134 x 118 mm.

There are 2 types of consoles: side consoles and coupling consoles.



**Console left/right (6-014684 / 6-014685)**



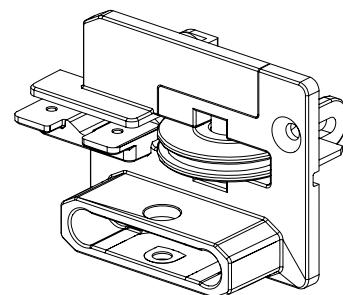
**Console middle - left/right (6-014687 / 6-014688)**

### **The sliding blocks**

Material: black plastic injection moulding

Function:

- Connection of extension pole and guide rails, fitted with a sliding surface that meshes into the running surface of the guide rail.
- These are screwed into the left and right of the end of the extension pole.



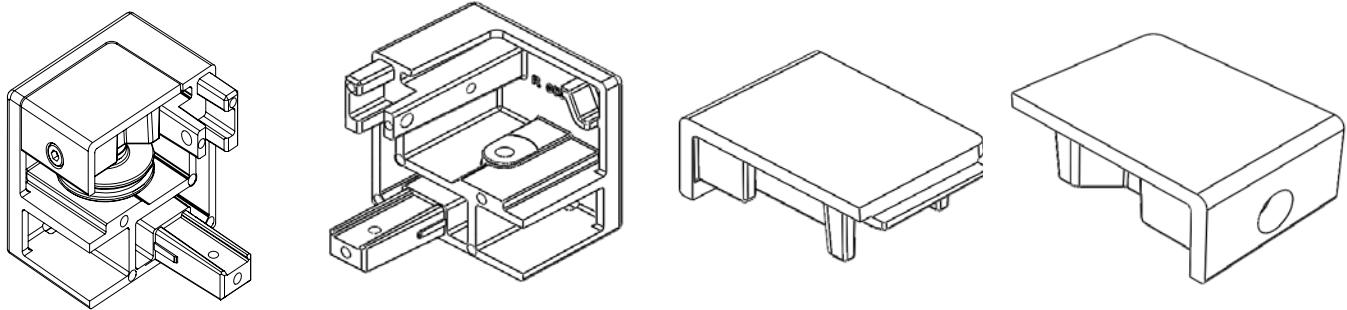
## Guide rail covers

Material: high-pressure-cast aluminium with powder coating.

Colour: colour of frame

Function:

- To cover the guide rail
- Turn-over wheel cord



## The tension system

Material: the castors, axles, etc. are made of non-corroding materials.

Function: fabric and extension pole can be constantly kept under tension via a spring, castors and a cord of Ø2 mm.

This keeps the fabric at a certain distance from the glass roof when unrolled, so that there is a ventilation space between the sunblind and the glass roof (elimination of accumulated heat).

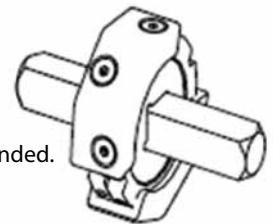
## Connector

Material: Corrosion resistant

Function: pairing of two parts of fabric

Adjustable in 8 steps

Warning: Bottom profiles may not fully extend and retract at the same time, as free play may appear in the connection. For coupled awnings, drive with a motor located on the widest part is therefore recommended.



## Mounting of the guide rails

### S: Standard aluminium bracket

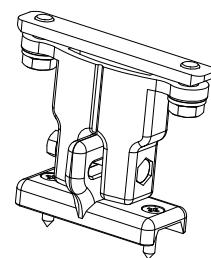
Material: aluminium version, with powder coating adapted to the colour of the frame.

The attachment system is in two parts:

- The upper part: attached to the bottom of the lateral and central guides.
- The lower part, comes in two versions:

#### A: Low bracket standard SA

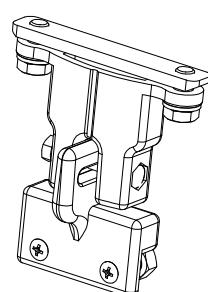
- for Veranda roof profiles with glass above and wooden pergola and veranda systems,
- is screwed into the wood or into the groove at the top of the profiles into which the rubber seal is fixed. (fitting A)



**Low bracket standard SA**  
(2-01408-PU11X)

#### B: High bracket SB

- for Veranda profiles with the glass beneath and screwed into the veranda roof profile with two bolts. (fitting B)
- The upper and lower parts can be adjusted laterally to one another. This allows small positioning deviations between guide profile and Veranda profile to be absorbed.

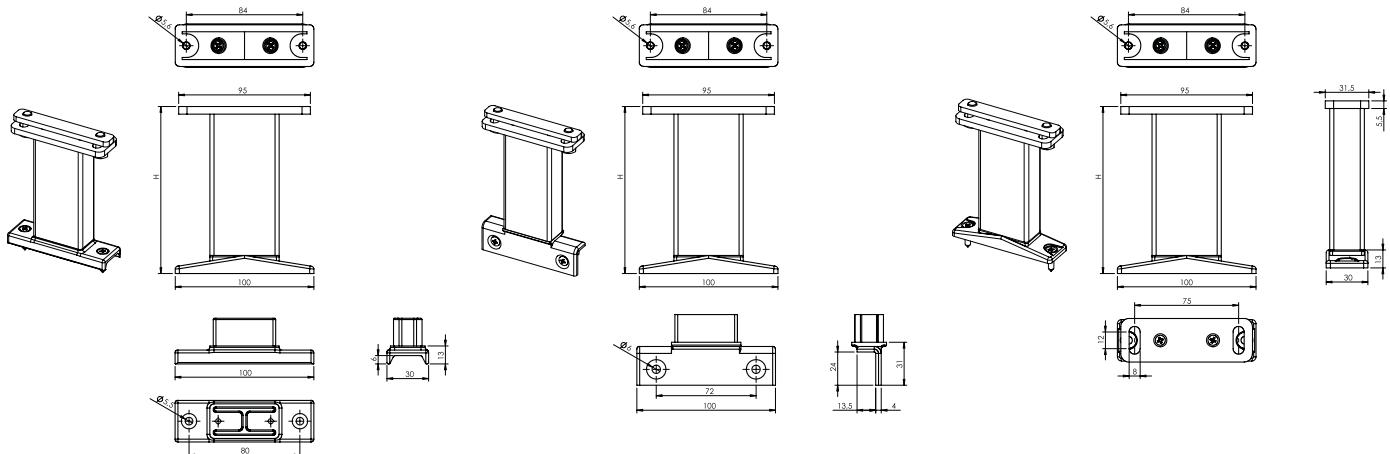


**High bracket SB**  
(2-01409-PU11X)

### Z: without brackets

- Attention: the fabric will always droop a little but must never touch the glass.

## Raised brackets



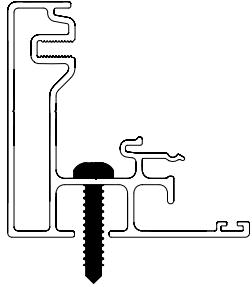
**Bracket VL Av (2-01410-PU11X)**

**Bracket VL Bv (2-01411-PU11X)**

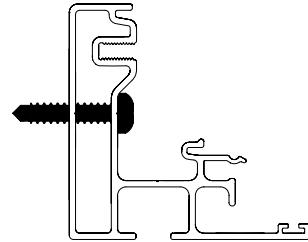
**Bracket VL Cv (2-01412-PU11X)**

The clearance between the guide rail and the glass profiles can be increased by means of elevated supports. When doing this, take into account the fact that the veranda profiles, when using elevated supports, will be subject to heavier loads. For this reason, they can only be used when there is no danger of them twisting. If required, each guide rail must be supported. The elevated supports are available in lengths of 120 mm, 200 mm, 300 mm or 400 mm. The maximum permitted distance between two attachment points of a guide rail is 1600 mm.

### Pre-drilled guide rails along the bottom



### Pre-drilled guide rails in the side



- If you choose to pre-drill the guide rails no supports will be provided.
- Holes of Ø5 mm will be provided, at max. 500 mm distance apart.

### Fixing on the wall

Additional fitting options:

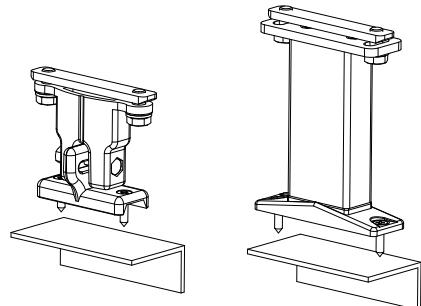
If fixing methods A or B are not possible, an option is to fix against a wall. There are 3 standardised L-profiles. (Always to be used with flat supports Cv)

Available in the following sizes:

- Type L1 = 50 x 30 x 3 mm
- Type L2 = 100 x 50 x 3 mm
- Type L3 = 130 x 50 x 5 mm

For extension length up to 3 m, only 1 profile is used.

For extension length over 3 m, 2 profile pieces are used.



Fixing on the wall

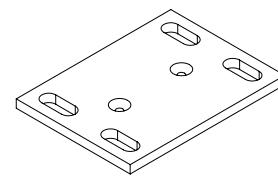
## Coupling of 2 lateral guides

Coupling duo set:

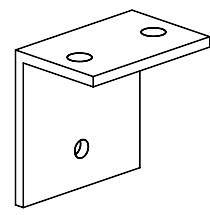
- Consists of: The coupling plate and coupling angle with the requisite screws, nuts and washers.

- Function:

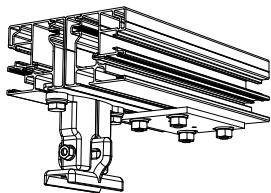
- When using an elevated support in the middle, the profile of the elevated support is directly fixed to the coupling plate. In that case, the upper part of the elevated support will not be used.
- If the standard support is placed in the middle, the upper part of the support should be replaced by the coupling angle.
- If the support is placed left or right on the guide rail, the coupling will be done independently of the support, by mounting the coupling plate behind the support.



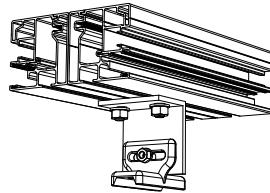
Coupling plate



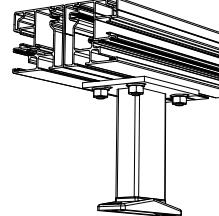
Angle coupling



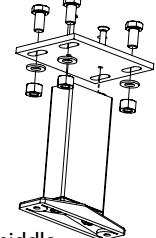
Positioning support under left or right guide rail.



Positioning standard support in the middle.



Positioning elevated support in the middle



| Height (mm) | Quantity (pcs) |
|-------------|----------------|
| 1600        | 2              |
| 3200        | 3              |
| 3500        | 4              |

With the Porch HRV08-ZIP, it is possible to combine maximum of 4 porches. If the total ordered width of the coupled porches is less than 6 m, they are delivered in a common box. It is necessary to enter dimension „B“. Provided the total width exceeds 6 m, they will be delivered in two separate parts to be joined at the assembly site.

## Technical options – verandas coupling

| Typ    | Maximum width (m) |           |            |            |            |   |   |   |    |  | Max. area           | Number of verandas | Number of motors |
|--------|-------------------|-----------|------------|------------|------------|---|---|---|----|--|---------------------|--------------------|------------------|
|        | 0,85              | 1,7       | 2,55       | 3          | 3,4        | 5 | 6 | 8 | 10 |  |                     |                    |                  |
| Type 1 |                   | 1 veranda |            |            |            |   |   |   |    |  | 10,5 m <sup>2</sup> | 1                  | 1                |
| Type 2 |                   |           | 2 verandas |            |            |   |   |   |    |  | 17,5 m <sup>2</sup> | 2                  | 1                |
| Type 2 |                   |           | 2 verandas |            |            |   |   |   |    |  | 21 m <sup>2</sup>   | 2                  | 2                |
| Type 3 |                   |           |            | 3 verandas |            |   |   |   |    |  | 28 m <sup>2</sup>   | 3                  | 2                |
| Type 4 |                   |           |            |            | 4 verandas |   |   |   |    |  | 35 m <sup>2</sup>   | 4                  | 2                |

Note: Two porches in one box and with one engine can be up to maximum width of 5 m. More than 5 m, 2 motors are required.

## Control

Drive via tubular motor 230 Volt (50Hz) fitted far left or far right as required. Control location when viewed from the outside. As standard there is delivered 3 m long cable and a single-pole surface-mounted switch.

Optionally:

- Cable 5 or 10 m
- The distance can be increased by fitting a junction box
- without switch
- **Motor with automatic readjustment; blind will always be completely closed (Orea WT):**

- without control buttons; end points to be adjusted via cable, via an adjustment set.
- connectible in parallel (number determined by type of switch).
- 3 m electric cable.
- single pole surface-mounted switch.

- **Motor with built-in RTS receiver (Orea RTS):**

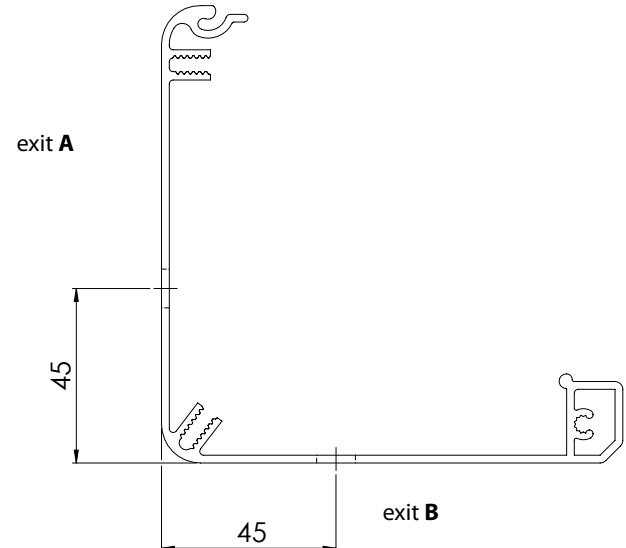
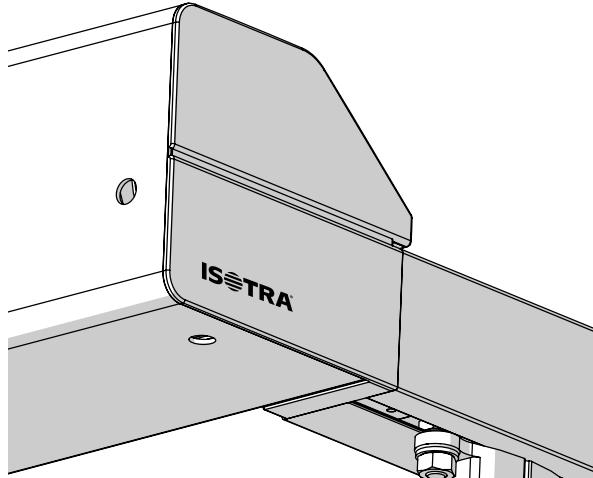
- 5 m electric cable - optional 10 m electric cable.
- with RTS wall transmitter - optionally without RTS wall transmitter.

- **Motor with built-in IO receiver (Sunea IO):**

- 5 m electric cable - optional 10 m electric cable
- with IO wall transmitter - optionally without IO wall transmitter

RTS and IO motors are supplied with the options "back release" and "reduced closing force" activated

Exits (cabling)



## Accessories:

- Relay boxes,
- Wind-and-solar control,
- Time switches,
- Remote control,
- etc.

## Motor control

Types of motors

### VERANDA HRV08-ZIP

| item name               | trade name - abbreviation 2 | order number - abbreviation 1 |
|-------------------------|-----------------------------|-------------------------------|
| Motor OREA 50 WT 40/17  | MR 096/40                   | 6-001550-0040                 |
| Motor OREA 60 WT 55/17  | MR 096/55                   | 6-001550-0055                 |
| Motor OREA 60 WT 70/17  | MR 096/70                   | 6-001550-0070                 |
| Motor OREA 60 WT 85/17  | MR 096/85                   | 6-001550-0085                 |
| Motor OREA 50 RTS 30/17 | MR092/30                    | 6-011171-0030                 |
| Motor OREA 50 RTS 40/17 | MR 092/40                   | 6-011171-0040                 |
| Motor OREA 60 RTS 55/17 | MR 092/55                   | 6-011171-0055                 |
| Motor OREA 60 RTS 70/17 | MR 092/70                   | 6-011171-0070                 |
| Motor OREA 60 RTS 85/17 | MR 092/85                   | 6-011171-0085                 |
| Motor Sunea 50 io 40/17 | MR 134/40                   | 6-012559-4017                 |
| Motor Sunea 60 io 55/17 | MR 134/55                   | 6-012559-5517                 |
| Motor Sunea 60 io 70/17 | MR 134/70                   | 6-012559-7017                 |
| Motor Sunea 60 io 85/17 | MR 134/85                   | 6-012559-8517                 |

### Types of motors (BECKER) for Veranda HRV08-ZIP

| item name                     | trade name - abbreviation 2 | order number - abbreviation 1 |
|-------------------------------|-----------------------------|-------------------------------|
| Motor BECKER 50 E 40/17       | 17BE                        | 6-017852-0040                 |
| Motor BECKER 60 E 60/17       | 17BE                        | 6-017852-0060                 |
| Motor BECKER 50 E 40/17       | BC40                        | 6-017852-0040                 |
| Motor BECKER 60 E 60/17       | BE60                        | 6-017852-0060                 |
| Motor BECKER 60 E 70/17       | BE70                        | 6-017852-0070                 |
| Motor BECKER 60 E 120/11      | BE120                       | 6-017852-0120                 |
| Motor BECKER 50 C 40/17       | 16BC                        | 6-017853-0040                 |
| Motor BECKER 60 C 60/17       | 16BC                        | 6-017853-0060                 |
| Motor BECKER 50 C 40/17       | BC40                        | 6-017853-0040                 |
| Motor BECKER 60 C 60/17       | BC60                        | 6-017853-0060                 |
| Motor BECKER 60 C 70/17       | BC70                        | 6-017853-0070                 |
| Motor BECKER 60 C 120/11 PLUS | BC120                       | 6-018886-0120                 |

Note: E=electronic motor, C=radio motor

# VERANDA HRV08-ZIP

## Measurement and assembly

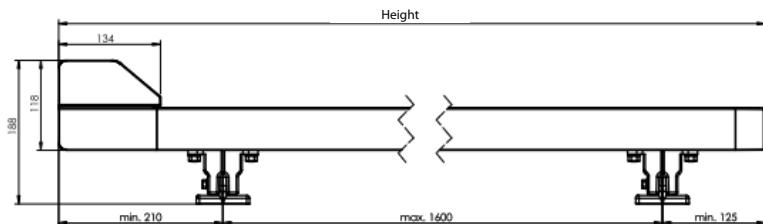
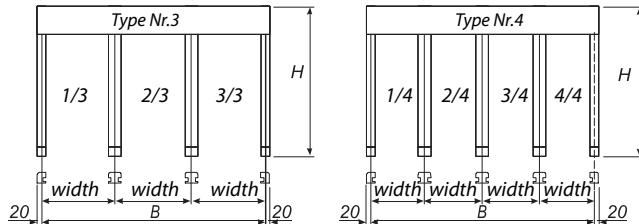
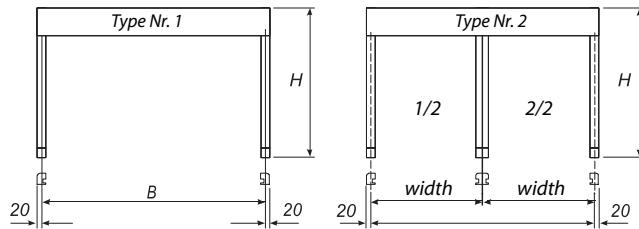
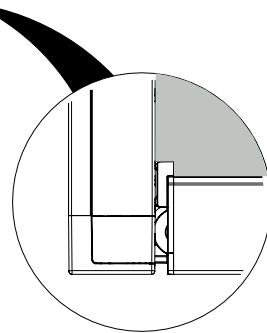
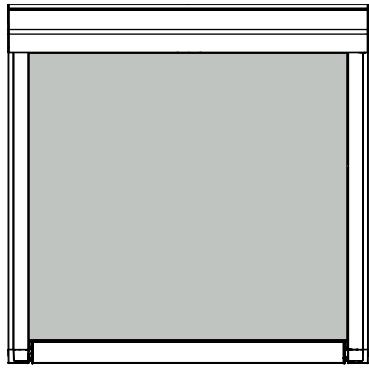
### 1. Measurement

The total width = centre of veranda profile to centre of veranda profile. The outside of the box is always 40 mm (2 x 20 mm) wider than the centre of the guide rails or the centre of the attachment supports.

The drop: measured from the back of the box at the top against the wall to the front of the guide rail, including the cover.

The final position of the extension pole can be set flush with the end of the cover of the guide rail.

Please note: the width of the box is always 40 mm more than the order width.



## Assembly

The HRV08-ZIP can be fitted in various ways. Here we will describe the various types of fitting. The choice of these types of fitting has an effect on such things as the technical possibilities, drainage holes and so on.

### Assembly MT1 – MT4

- Outdoor fitting
- Sunblind viewed along outside
- Fabric hangs outside
- Zipper at window side
- Drainage holes in extension pole and possibly in box
- Alu side of the fabric points to the sun for Soltis 86 and 92
- Grey film is on the window side for blackout fabric

#### ATTENTION:

In the case of fitting types 2 and 4, dirt can easily get into the box with the fabric. Additional periodic cleaning is required here.

Additional drainage holes are also provided in the box.

### Assembly MT5 – MT6

- Indoor fitting
- Sunblind viewed along inside
- Fabric hangs inside
- Zipper at window side
- No drainage holes in extension pole and box.
- Alu side of the fabric points to the floor for Soltis 86 and 92.
- Grey film is on the window side for blackout fabric.

### Assembly MT7 – MT8

- Outdoor fitting
- Viewed along outside
- Fabric hangs outside
- Zipper at window side
- Alu side of the fabric points to the sun for Soltis 86 or 92
- Grey film is on the window side for B-92 Blackout fabric

### Assembly MT9 – MT10

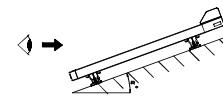
- Indoor fitting
- Viewed along inside
- Fabric hangs inside
- Zipper at window side
- Alu side of the fabric points to the floor for Soltis 86 and 92.
- Grey film is on the window side for B-92 Blackout fabric

#### Attention!

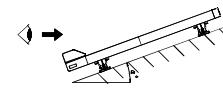
In the case of assembly type 7, 8, 9 and 10 dirt can get in the guide rail. The motor is always at the top of the box.

To prevent damage to the lower side guide, We consider a placement for a sliding window unsuitable.

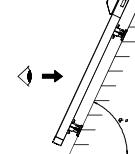
### MT1



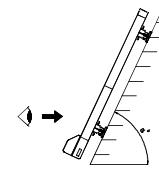
### MT2



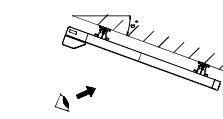
### MT3



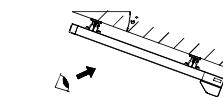
### MT4



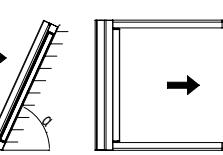
### MT5



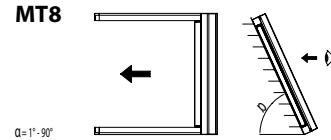
### MT6



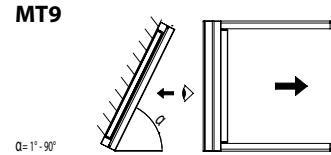
### MT7



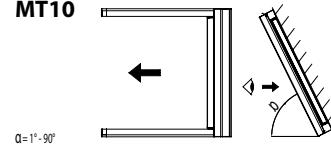
### MT8

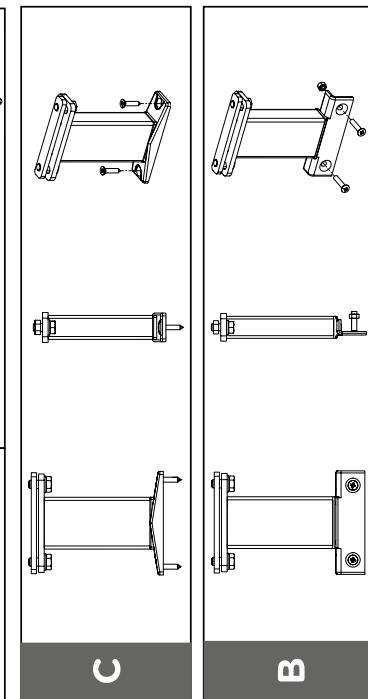
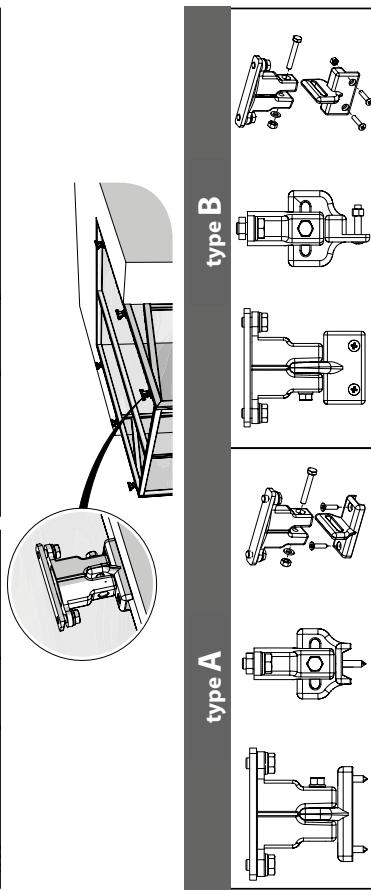
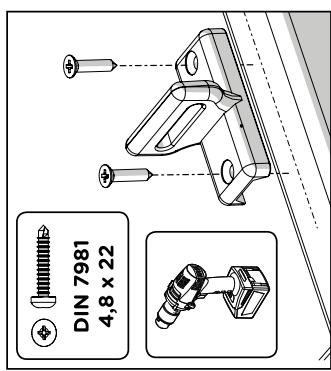
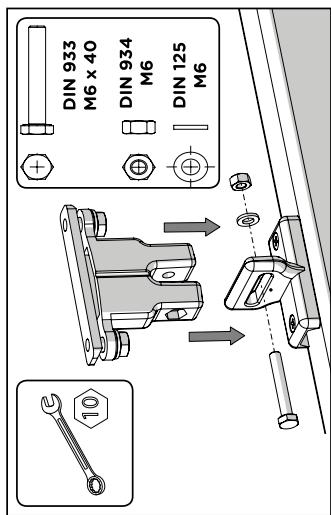


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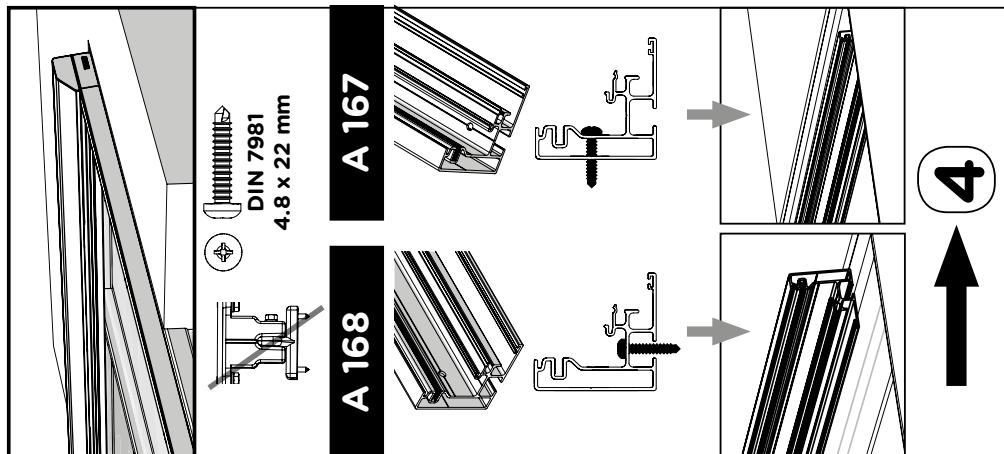


### MT10

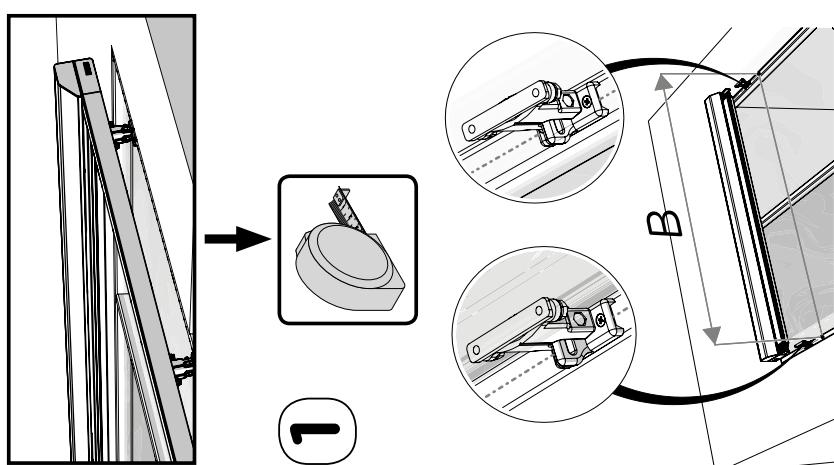


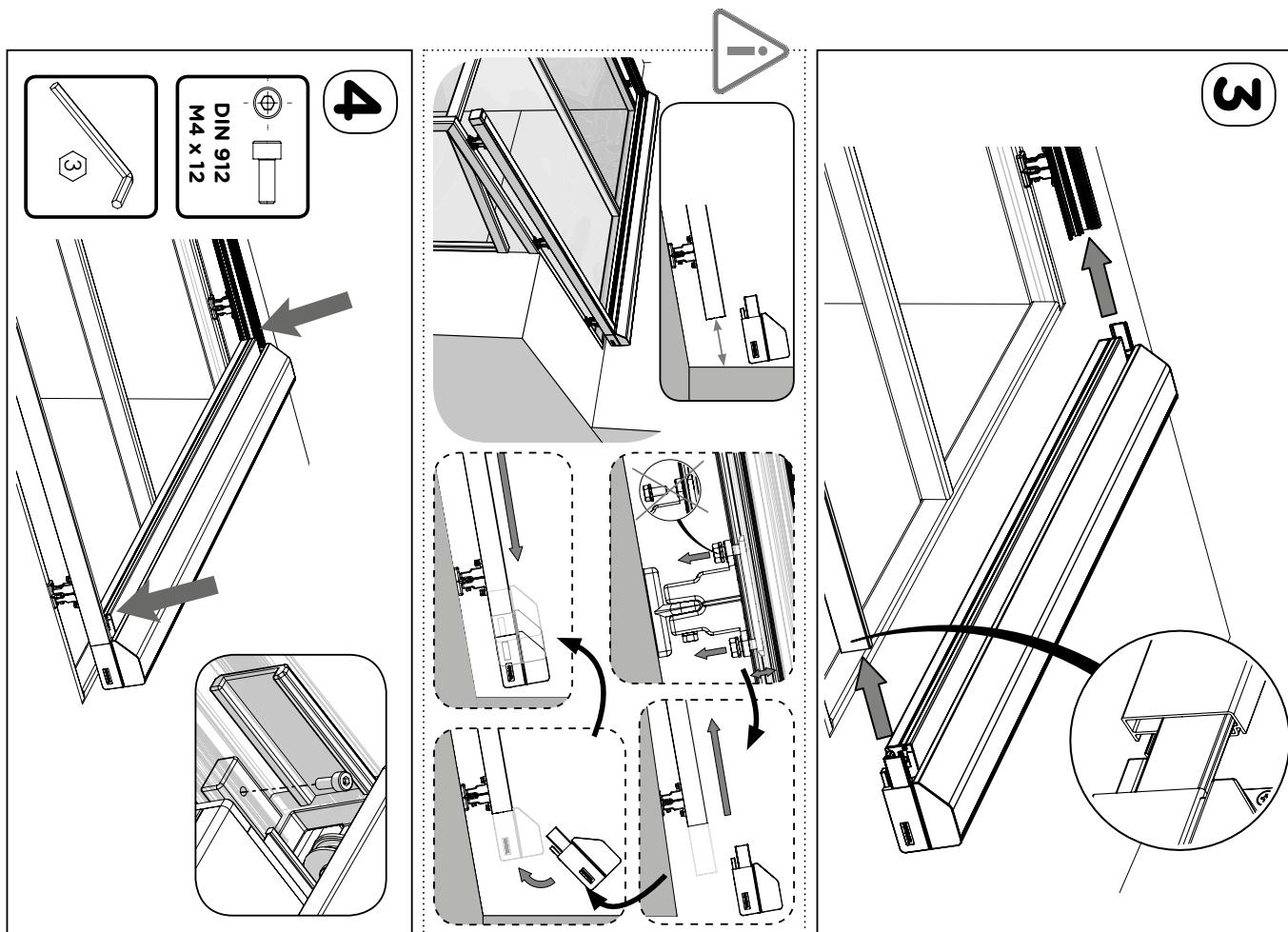
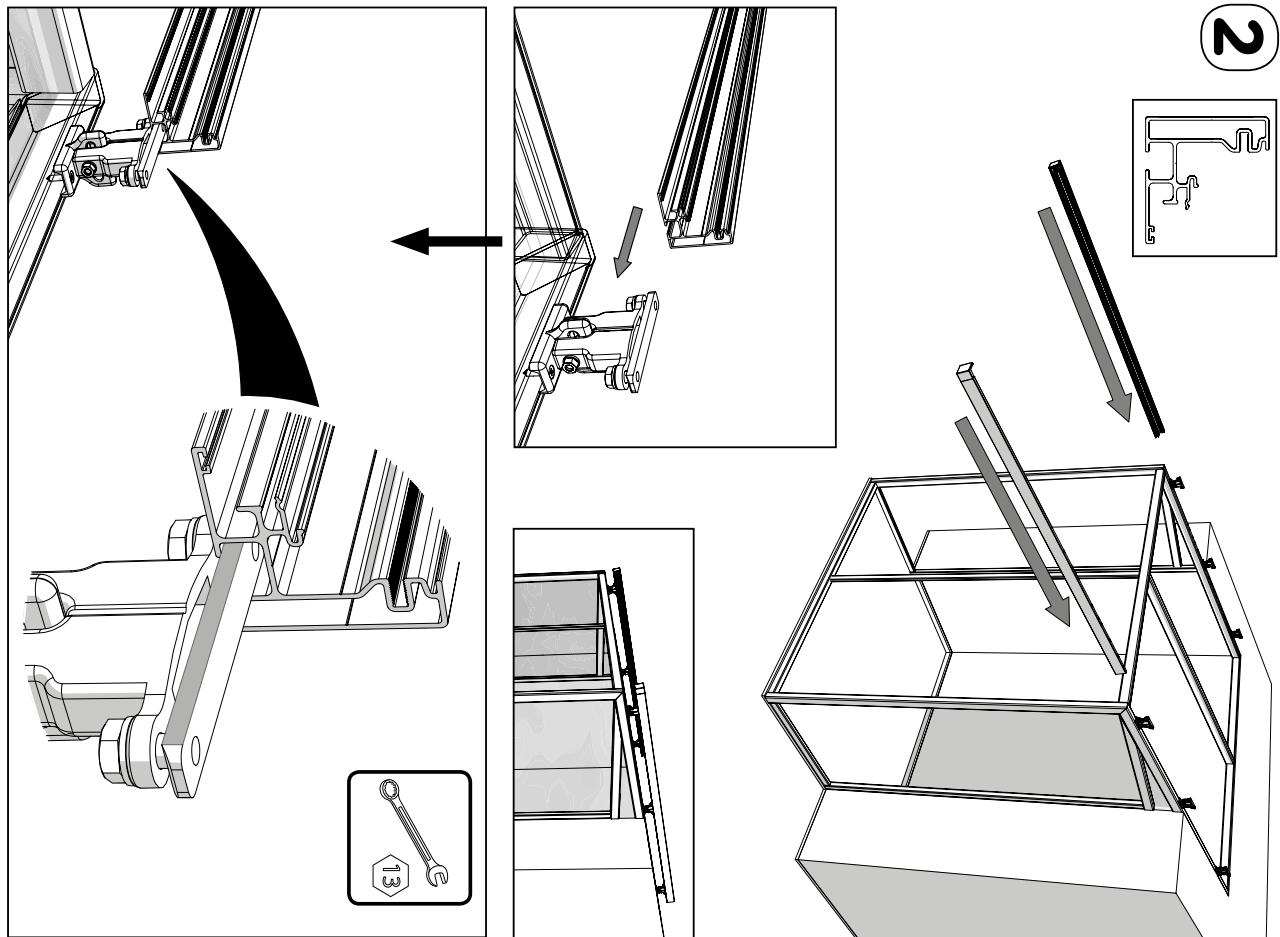


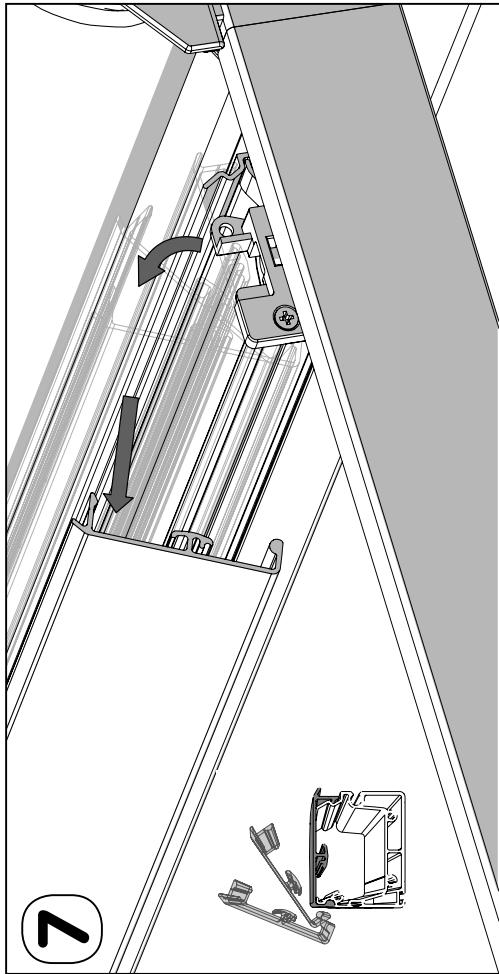
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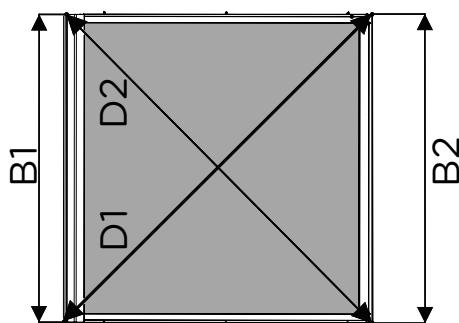
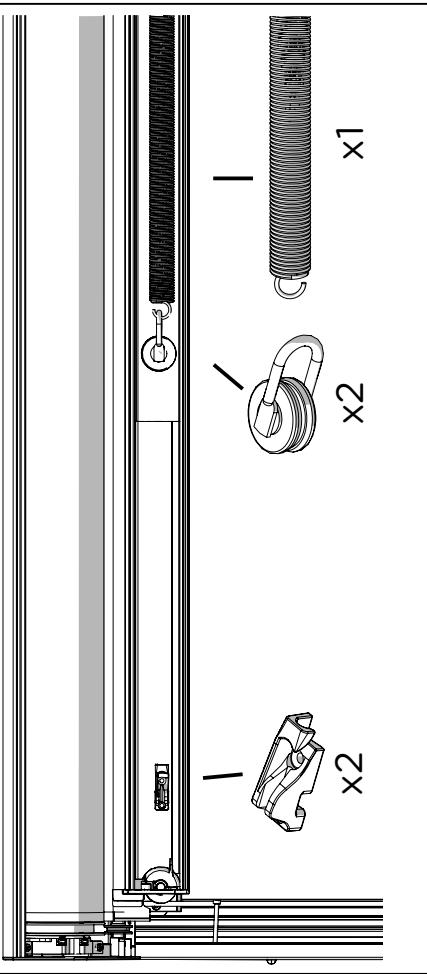
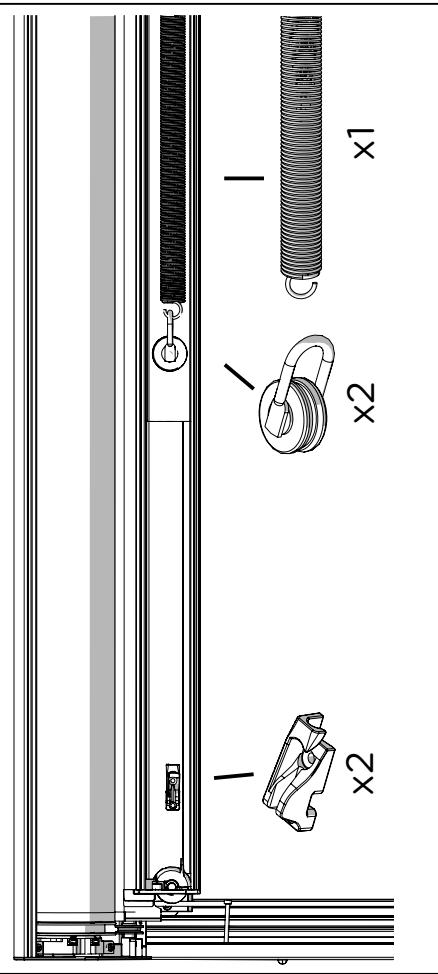
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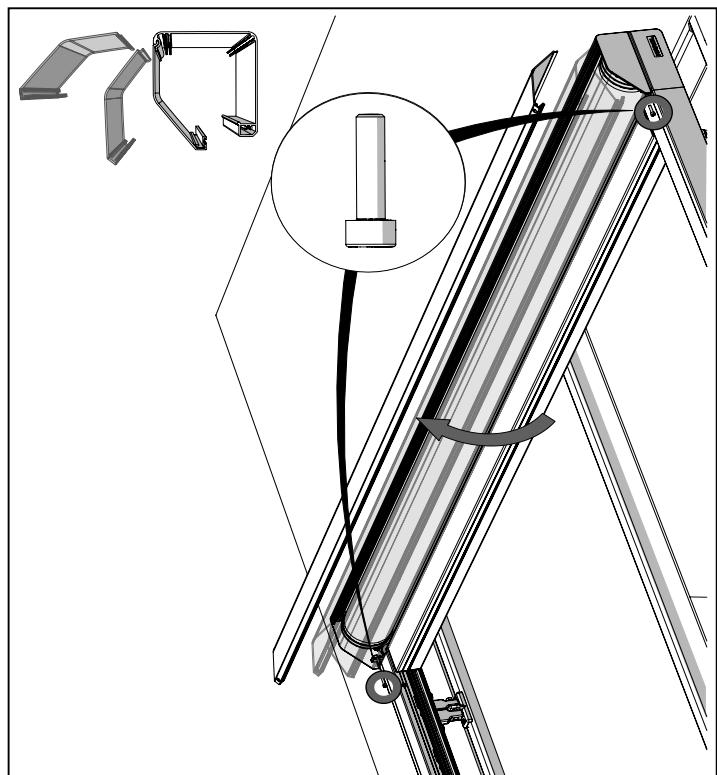




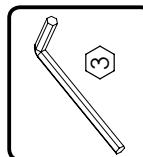
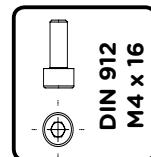
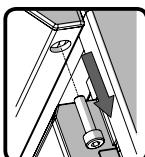
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**B1 = B2 & D1 = D2**  
(+/- 2mm) (+/- 2mm)

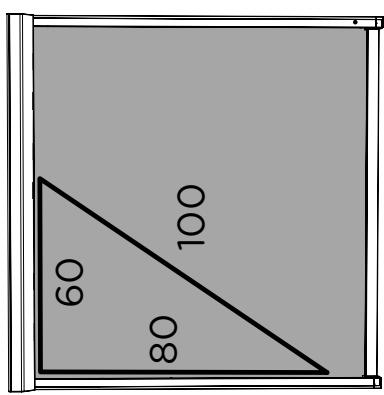


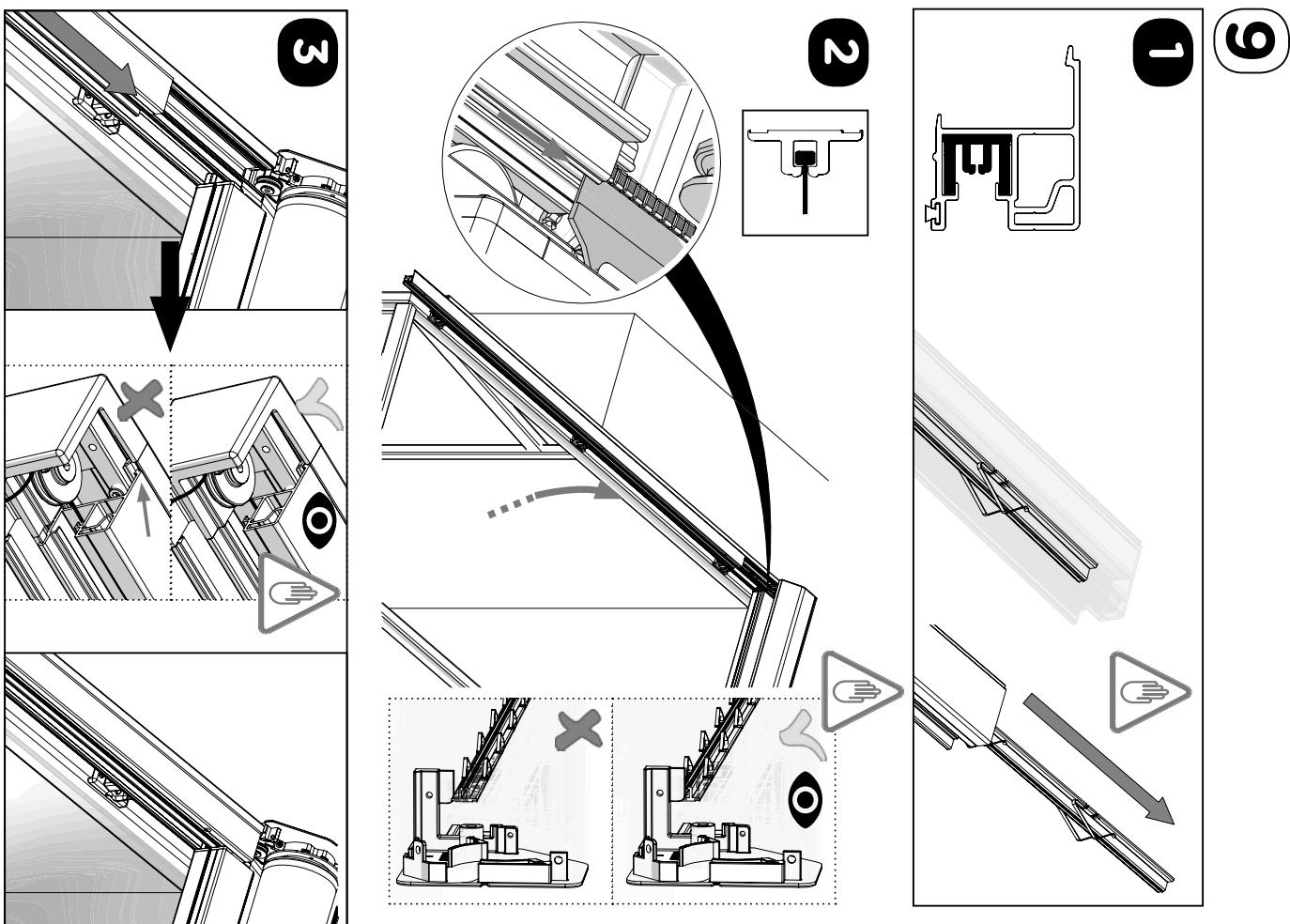
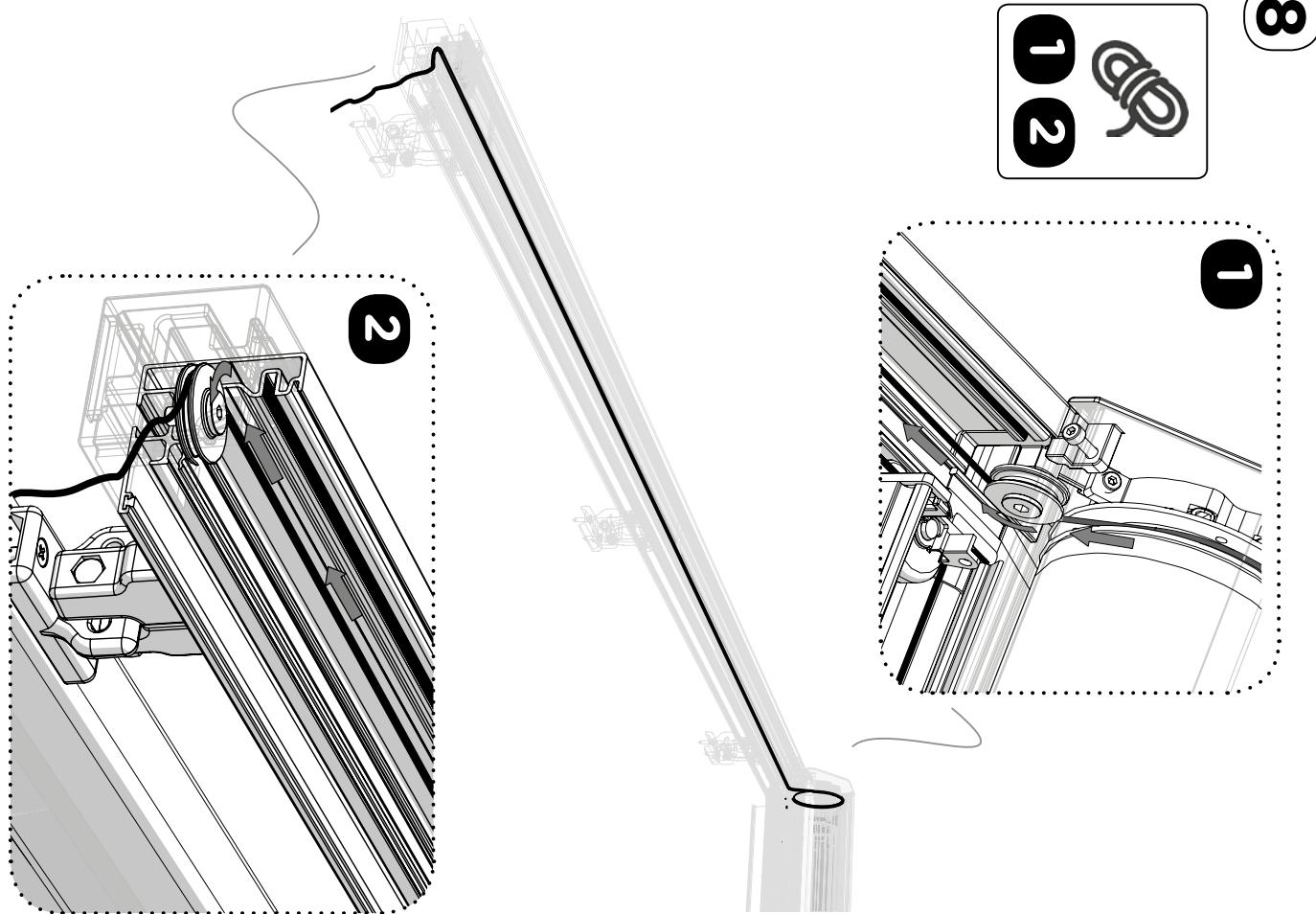
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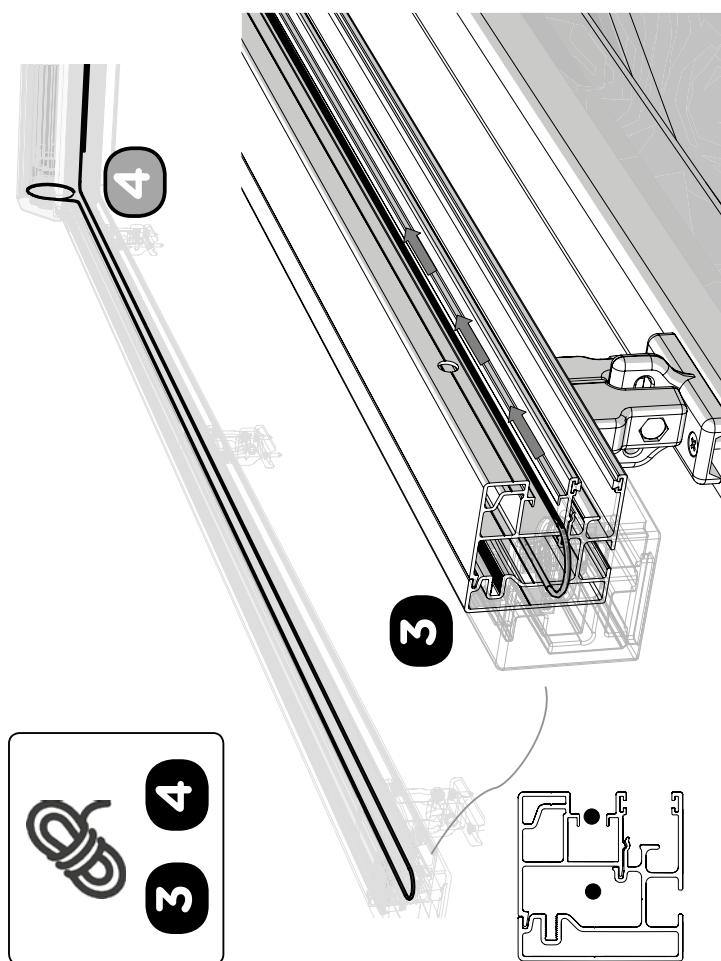
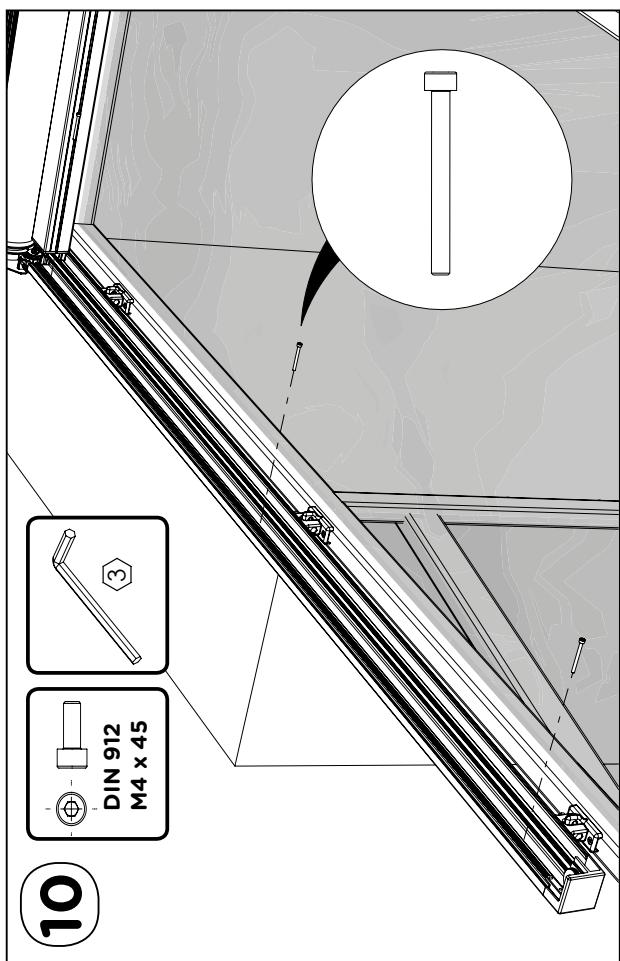
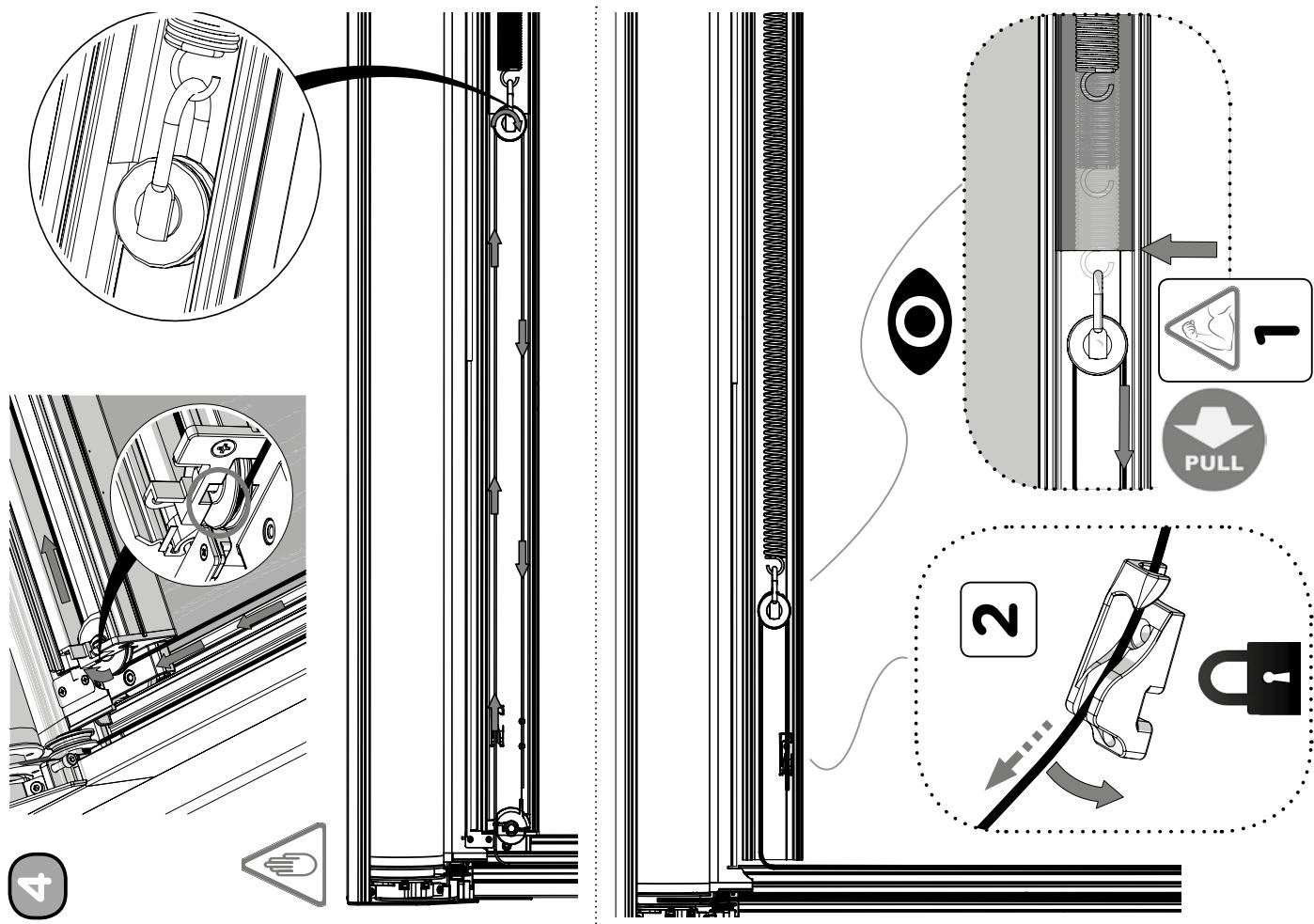


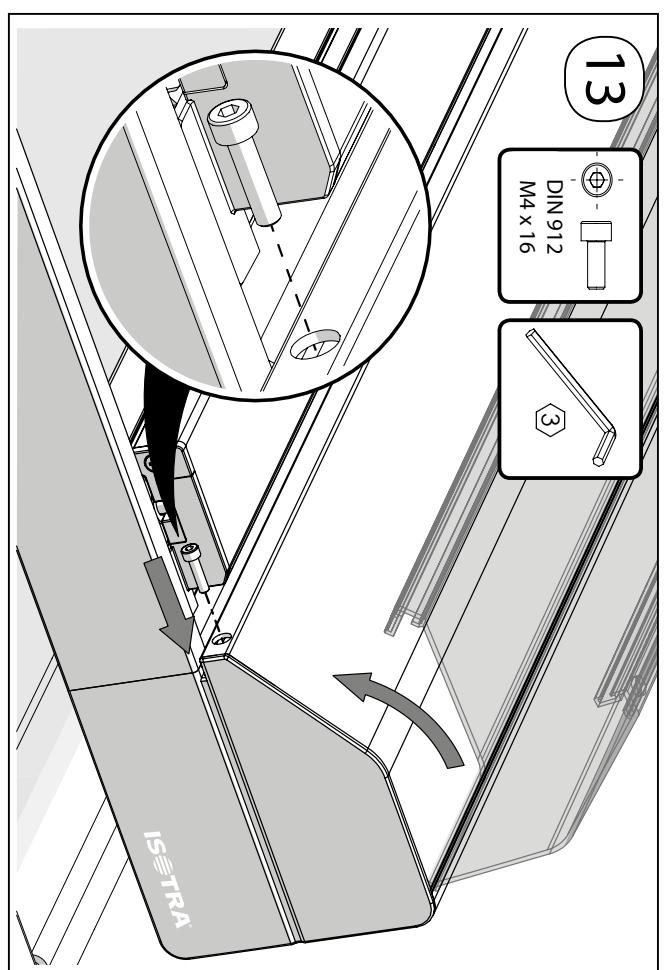
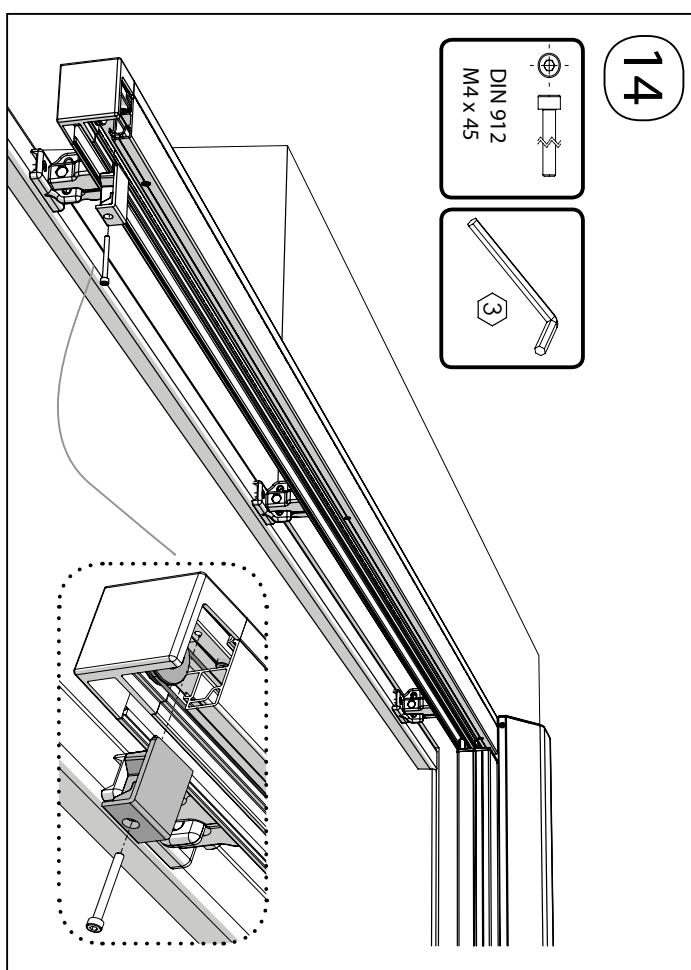
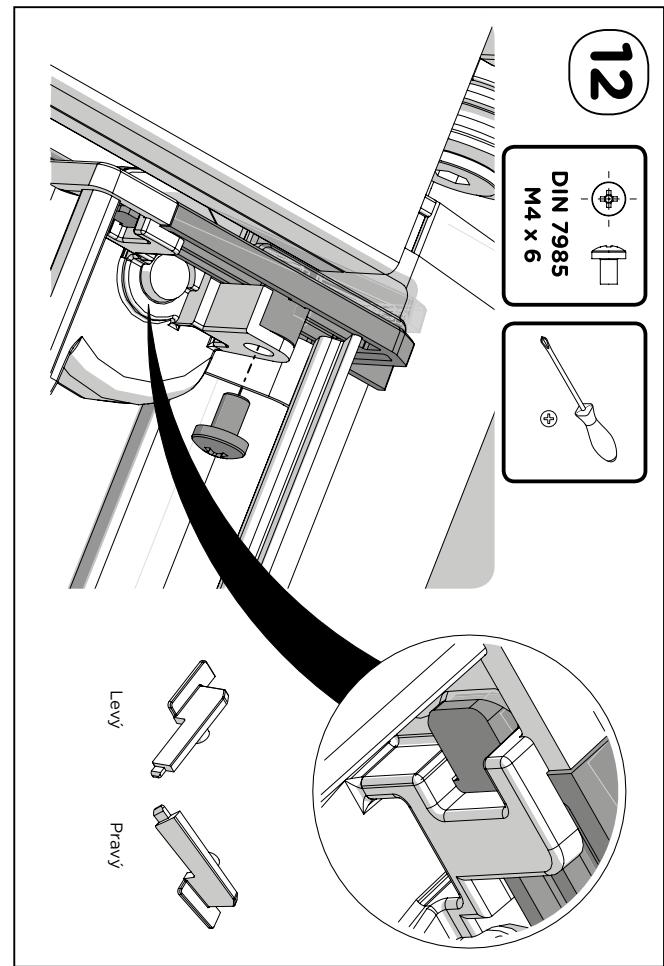
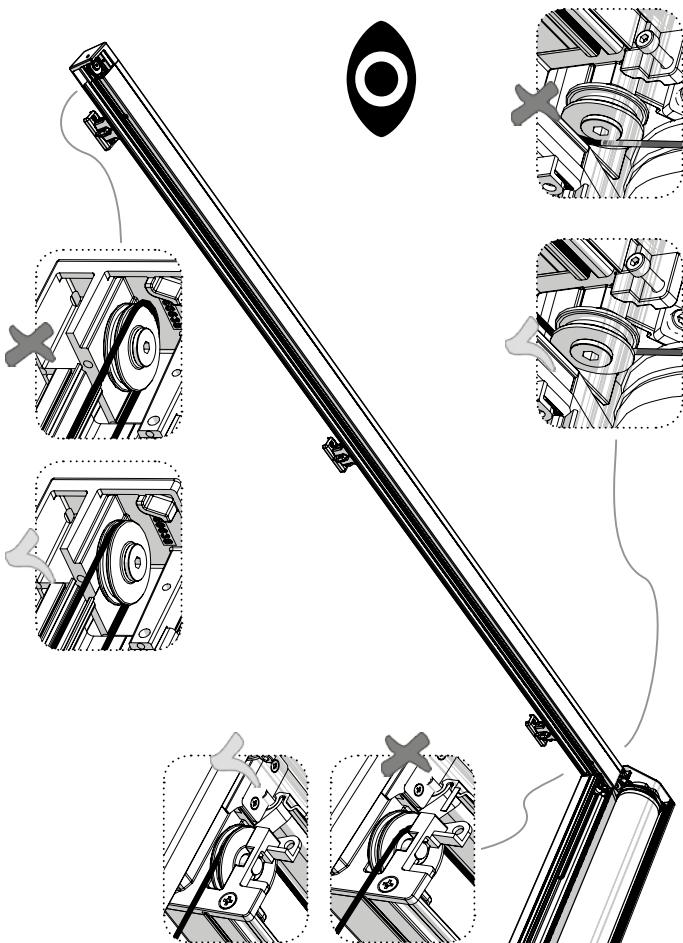
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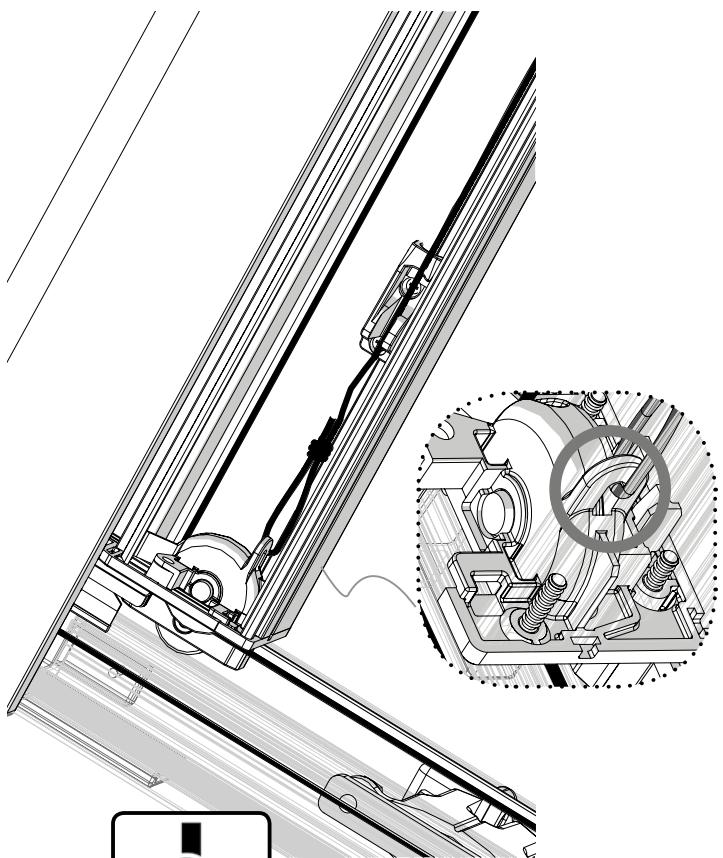
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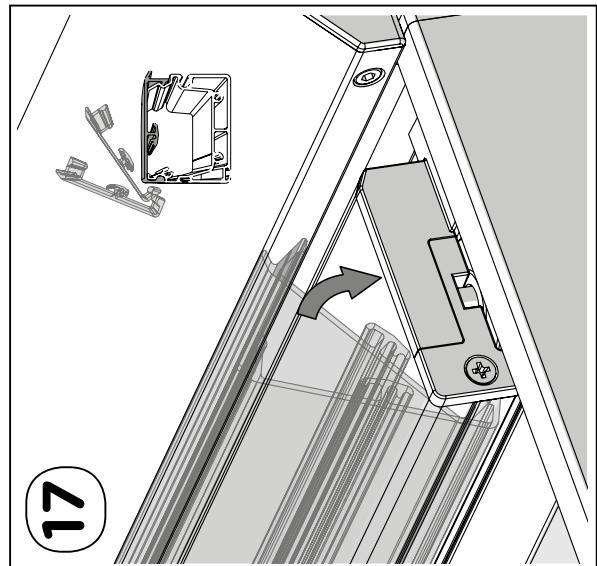
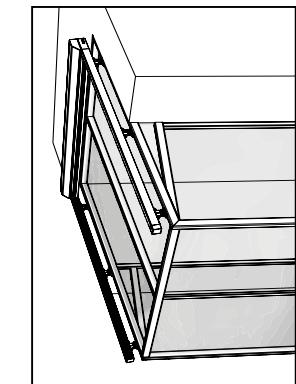








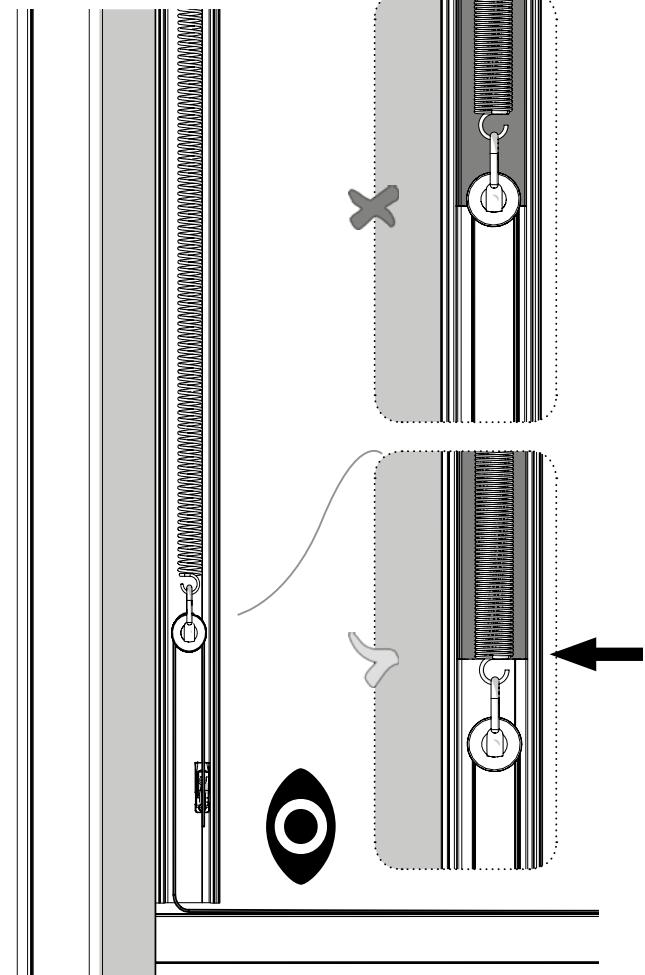
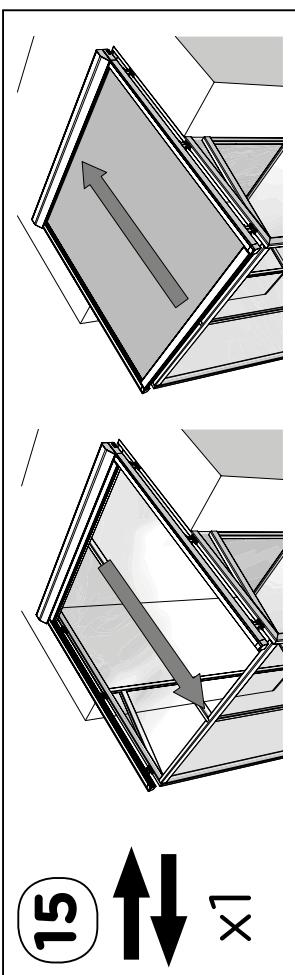
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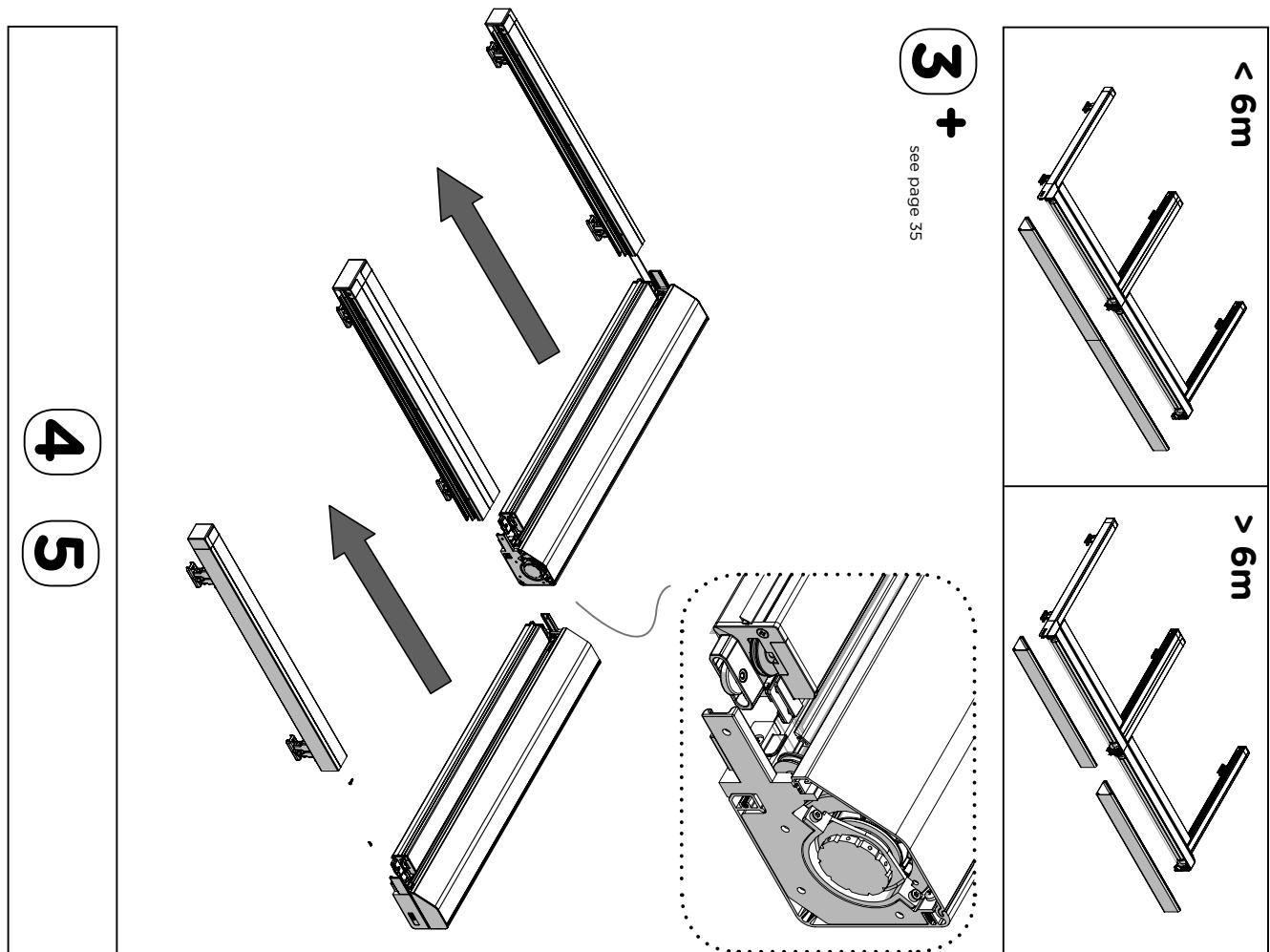
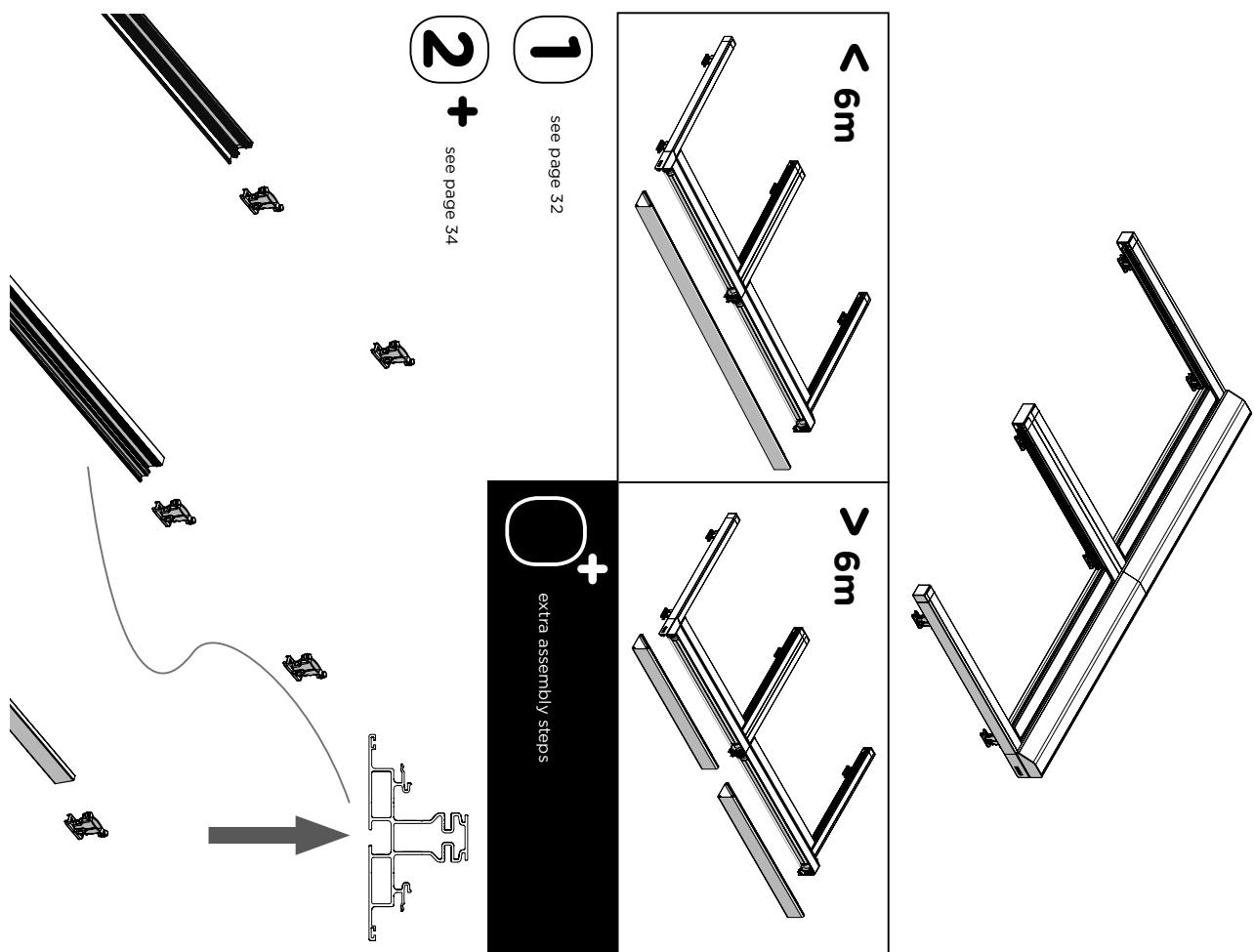


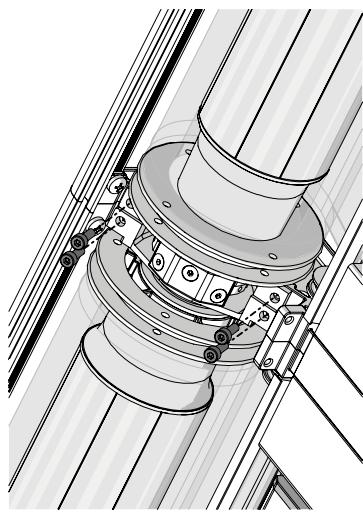
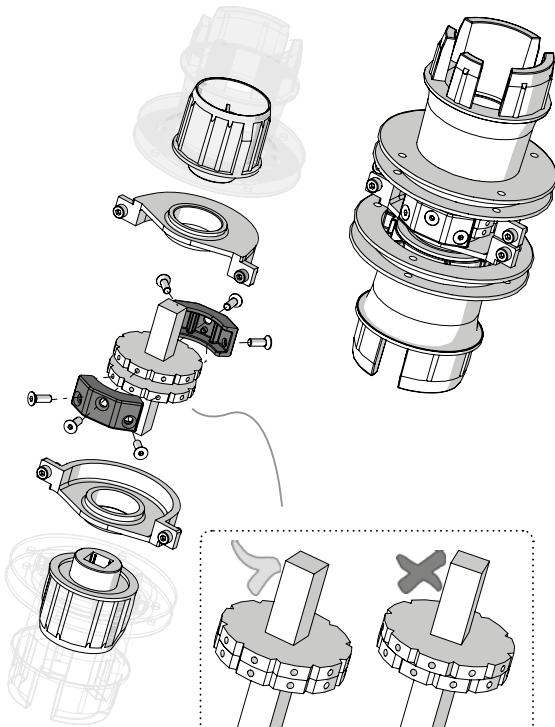
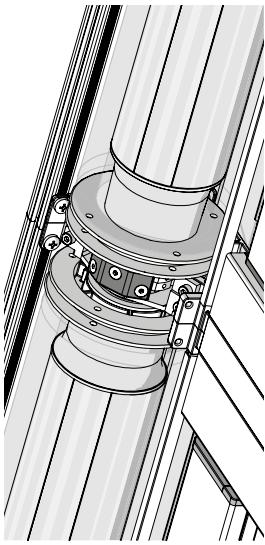
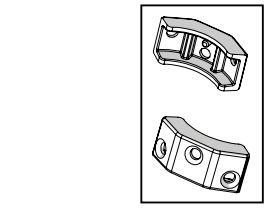
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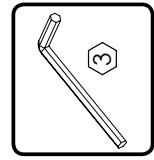
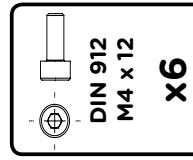
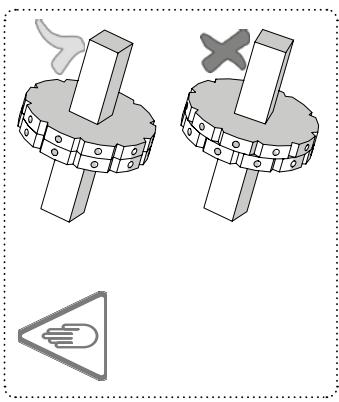
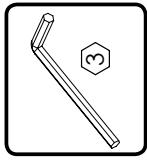
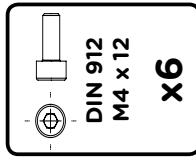
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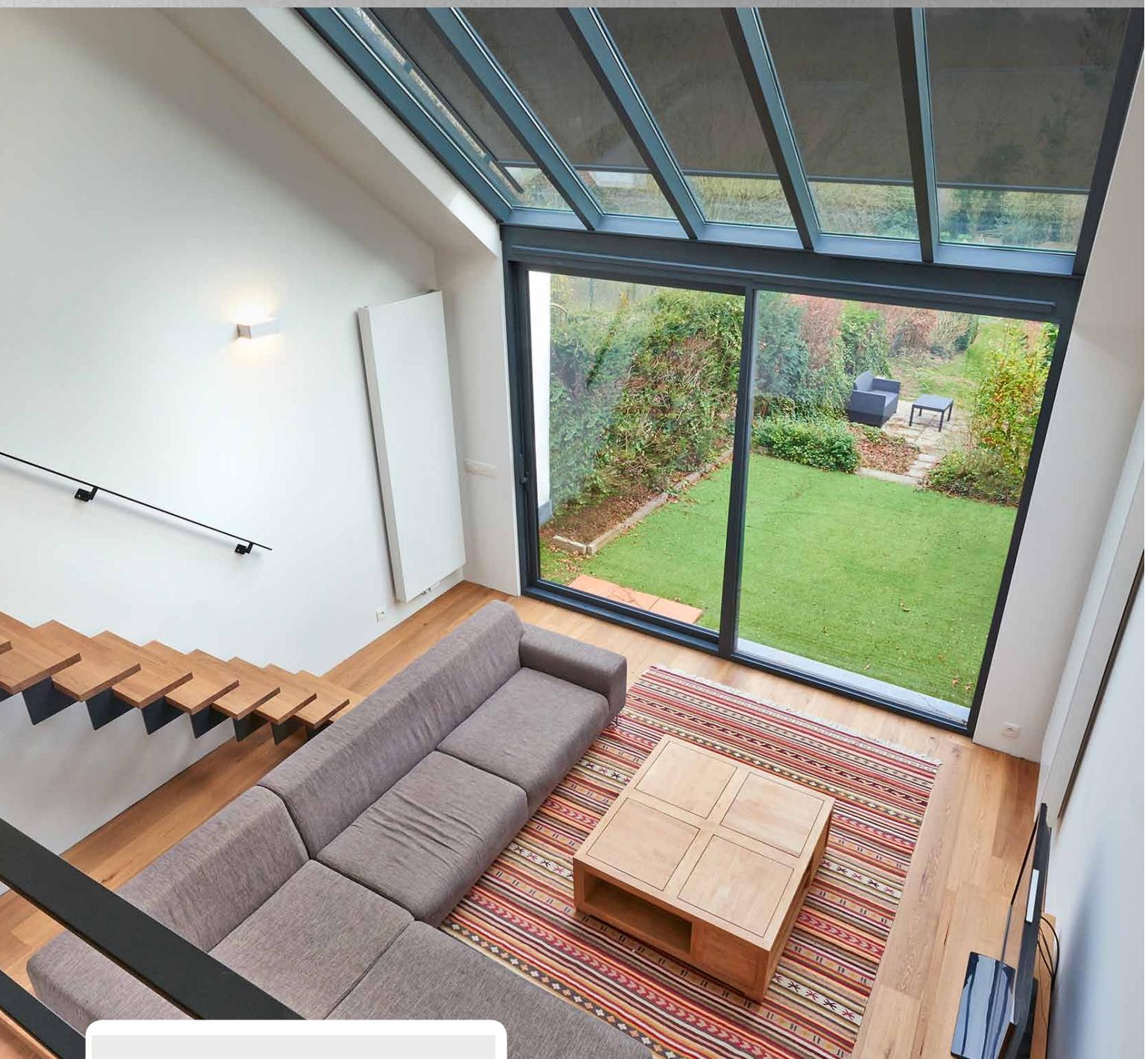


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**8**  
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## Veranda HRV80-ZIP

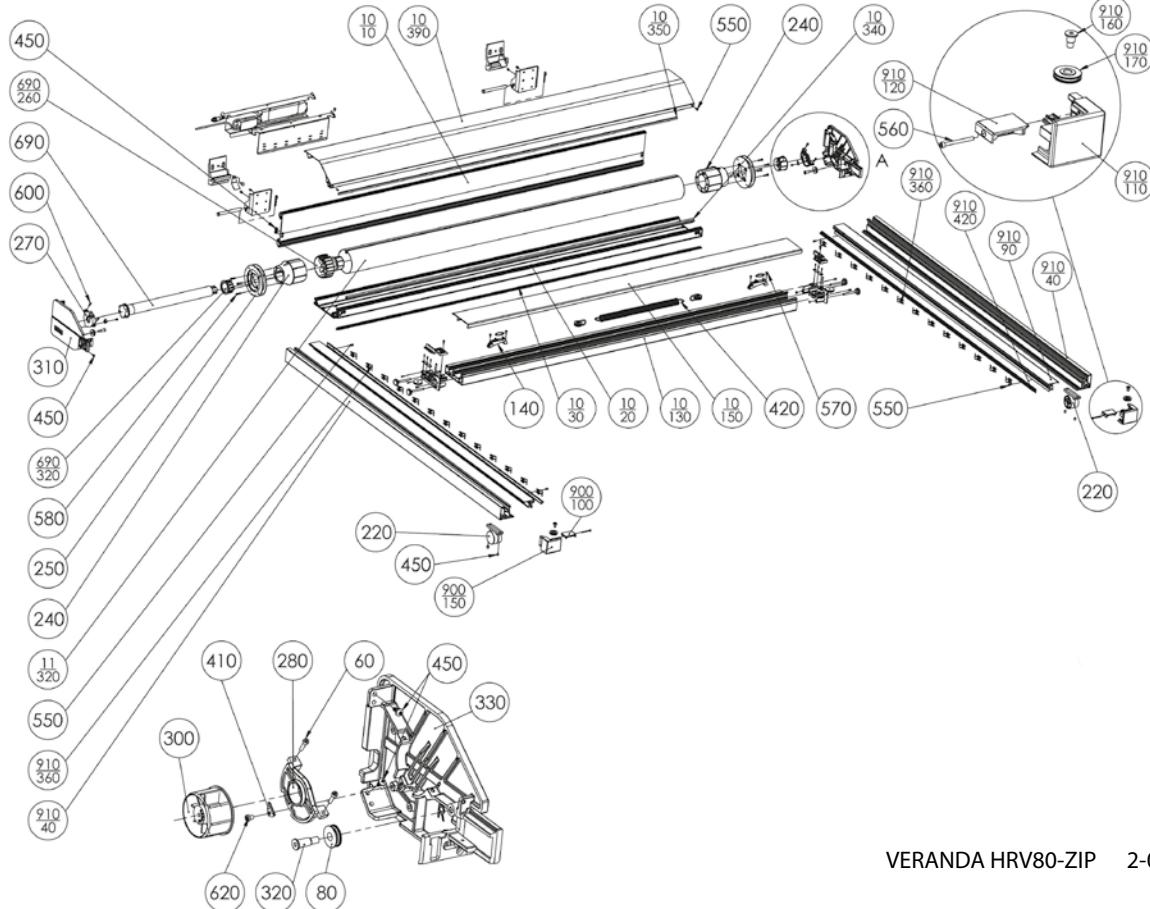


- ▲ Ideal for large glazed areas up to the 25 m<sup>2</sup> size in a single frame
- ▲ Less sunlight on vertical glazed areas thanks to an overlap
- ▲ Compact box: 245 (W) x 175 (H)
- ▲ Taut fabric thanks to the ZIP system

**ISOTRA**Quality

# VERANDA HRV80-ZIP

## Basic product specification



### Controls

Serves for opening and retracting the veranda. All box sizes can only be controlled by motor.

**Motor** – tubular motor 230 V (50 Hz) located on the far left or far right, as necessary. The standard supply includes a 3-metre cable (optionally 5, 10 m), Sunea IO motor type without push buttons, being controlled by an IO transmitter (can also be without the wall-mounted IO transmitter). Optionally, it is possible to supply the Orea WT motor with automatic readjustment, or the Orea RTS motor with built-in RTS receiver.

The controls are always located when viewed from the outside.

### Fabrics

The fabrics are welded horizontally.

### Fabrics of the Blackout type:

The opaque layer is located on the side of the window for each type of installation. In the case of outdoor installation, strong winds can cause a slight lifting of the base slat and fabric and therefore 100% blackout cannot always be guaranteed. In the case of Blackout fabrics, the zippers are fastened on the face side and not on the opaque layer, so it is possible that under strong wind or oblique view of the guide rail a piece of cloth from the zipper tape can be seen, but this is of little importance compared to tightness of the fabric (reducing the waves).

### Specifications

|                        | <b>Upper section</b>  | <b>Bottom section</b> | <b>Lateral guiding</b> |                  | <b>Support profile</b> |
|------------------------|---|-----------------------|------------------------|------------------|------------------------|
|                        |   |                       | Guide rail             |                  |                        |
| <b>Dimensions (mm)</b> | 245 x 175   | 140 x 63              | 76,5 x 65              | 133 x 65         |                        |
| <b>Material</b>        | Al <sub>155</sub>   | Al <sub>140</sub>     | Al <sub>6,5</sub>      | Al <sub>33</sub> |                        |
| <b>Colour</b>          | RAL 9010, RAL 9006, RAL 9007, RAL 8014, RAL 7016, RAL 7016S, DECORAL only up to the max. width of 4000 mm |                       |                        |                  |                        |

### Standard dimensions

| <b>Version</b> | <b>Width (mm)</b> |       | <b>Height (mm)</b> | <b>Guaranteed area (m<sup>2</sup>)</b> |
|----------------|-------------------|-------|--------------------|--|
|                | min               | max   | max                | max                                    |
| motor          | 1500              | 6000* | 6000               | 25                                     |

\*For fabrics SLT2B 92 is max. width 5000 mm.

**VERANDA HRV80-ZIP** (2-01532-0000)

| <b>position</b> | <b>item name</b>                                       | <b>trade name - abbreviation 2</b> | <b>order number - abbreviation 1</b>                   |
|-----------------|--|------------------------------------|--|
| <b>10</b>       | <b>Multi-piece sections – VERANDA</b>                  |                                    | see Multi-piece sections – VERANDA<br><b>HRV80-ZIP</b> |
| 11/230          | Winding cylinder, diameter 110x1.25 mm                 | VRH 166                            | 6-015978-0000  |
| 80              | Reversing wheel for side board – 28x8 mm               | VRH 094                            | 6-014597-0000  |
| 140             | Terminal board for HI-TEC cord complete                | VRH 099                            | 6-014607-0000  |
| 220             | Suspension 65x65 part 2                                | VRH 165                            | 6-015977-0000  |
| 240             | Cylinder cap, diameter 110 mm – BLACK                  | VRH 167                            | 6-015979-0000  |
| 250             | Cord coiler, diameter 110 mm – BLACK                   | VRH 168                            | 6-015980-0000  |
| 270             | Cord coiler, diameter 110 mm – BLACK                   | VRH 174                            | 6-015999-9004  |
| 280             | Movable holder – BLACK                                 | VRH 175                            | 6-016000-9004  |
| 300             | Cylinder cap, square – BLACK                           | VRH 176                            | 6-016001-9004  |
| 310             | Side board – LEFT                                      | VRH 177                            | 6-016002-9004  |
| 320             | Reversing wheel pin – 10x34 mm                         | VRH 014                            | 6-014598-0000  |
| 330             | Side board – RIGHT                                     | VRH 178                            | 6-016003-0000  |
| 370             | Lower section end piece – LEFT – BLACK                 | VRH 179                            | 6-016004-9004  |
| 380             | Wheel with fork for cord guiding HRV                   |                                    | 6-019123-0000  |
| 400             | HI-TEC cord 2.7 mm                                     | VRH 021                            | 6-014626-0000  |
| 410             | Console lock   | VRH 182                            | 6-016008-0000  |
| 430             | Screw 3.5x16 DIN 7982 C-H A2, countersink – cross-head | VRH 130                            | 6-014674-0000  |
| 440             | Screw 2.9x13 DIN 7982 C-H A2, countersink – cross-head | VRH 129                            | 6-014738-0000  |
| 450             | Screw 4.8x13 DIN 7982 C-H A2, countersink – cross-head | VRH 134                            | 6-014734-0000  |
| 460             | Allen head screw M6x30, DIN 912, A2                    |                                    | 6-010408-0000  |
| 500             | Screw M5x16 Zn DIN 965-Z, A2, countersink – cross-head |                                    | 6-014338-0000  |
| 550             | Allen head screw M4x25, DIN 912, A2                    |                                    | 6-016048-0000  |
| 570             | Screw 4.2x13 DIN 7981 CH, A2, cup-head, cross-head     | VRH 132                            | 6-014640-0000  |
| 580             | Screw – WN 1412 – K50x25, A2                           |                                    | 6-016013-0000  |
| 600             | Allen head screw M4x16, DIN 912, A2                    | VRH 102                            | 6-014736-0000  |
| 620             | Screw M4x6 INOX A2, DIN 7985-H, cup-head, cross-head   | VRH 105                            | 6-014737-0000  |
| <b>690</b>      | <b>Motors (SOMFY) VERANDA</b>                          |                                    | <b>see Motors – VERANDA HRV80-ZIP</b>                  |
| 800             | Screw M5x10 INOX A2, DIN 933 (hexagonal)               |                                    | 6-012977-0000  |
| <b>900</b>      | <b>Guiding – rail – LEFT</b>                           |                                    | <b>see Guiding – rail – LEFT</b>                       |
| <b>910</b>      | <b>Guiding – rail – RIGHT</b>                          |                                    | <b>see Guiding – rail – RIGHT</b>                      |

**Multi-piece sections – VERANDA HRV80-ZIP** (3-03390-0085)

| <b>position</b> | <b>item name</b>            | <b>trade name - abbreviation 2</b> | <b>order number - abbreviation 1</b> |
|-----------------|-----------------------------|------------------------------------|--------------------------------------|
| 10/10           | Section BOX – rear          | VRH 147                            | 6-015958-0000                        |
| 10/20           | Section BOX – lower         | VRH 148                            | 6-015959-0000                        |
| 10/30           | Lower section LED – 7.0m    | VRH 149/1                          | 6-015960-0007                        |
| 10/130          | Lower section               | VRH 158                            | 6-015969-0000                        |
| 10/150          | Lower section – cover       | VRH 159                            | 6-015970-0000                        |
| 10/340          | Profile for fabric run-on   | ZPH115-1                           | 6-013986-0000                        |
| 10/350          | Brush for upper box – BLACK | VRH 024                            | 6-014706-9004                        |
| 10/390          | Section BOX – cover         | VRH 181                            | 6-016007-0000                        |

**Guiding – rail HRV80-ZIP – LEFT (2-01533-PU11L)**

| position | item name                   | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|-----------------------------|-----------------------------|-------------------------------|
| 900/100  | Guide rail cap – left       | VRH 155                     | 6-015966-0000                 |
| 900/150  | Guide rail end piece – left | VRH 151                     | 6-015962-0000                 |

**Guiding – rail HRV80-ZIP – RIGHT (2-01533-PU11P)**

| position | item name                        | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|----------------------------------|-----------------------------|-------------------------------|
| 910/40   | Guide rail section               | VRH 150                     | 6-015961-0000                 |
| 910/90   | Guide rail section – lock        | VRH 154                     | 6-015965-0000                 |
| 910/110  | Guide rail end piece – right     | VRH 156                     | 6-015967-0000                 |
| 910/120  | Guide rail cap – right           | VRH 157                     | 6-015968-0000                 |
| 910/160  | PIN of side board dia. 10        | VRH 152                     | 6-015963-0000                 |
| 910/170  | Wheel for rope                   | VRH 153                     | 6-015964-0000                 |
| 910/360  | Spring of guide rail ZIP SC800   | ZPH147                      | 6-013992-0000                 |
| 910/420  | Guiding section SC800 for zip v3 | ZPH145                      | 6-014155-0000                 |

**Motors – VERANDA HRV80-ZIP (2-00530-0008)**

| position | item name                        | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|----------------------------------|-----------------------------|-------------------------------|
| 310      | Carrier LT50/60 HI – dia. 110 mm | VRH 170                     | 6-015982-0000                 |
| 320      | Adapter – LT50 – tube dia. 61 mm | VRH 003/1                   | 6-014898-0000                 |

**Weight**

| box    |               | 2 lateral guides |               | double guide rail |               |
|--------|---------------|------------------|---------------|-------------------|---------------|
| length | weight        | length           | weight        | length            | weight        |
| 1,0 m  | approx. 25 kg | 1,0 m            | approx. 5 kg  | 1,0 m             | approx. 4 kg  |
| 1,5 m  | approx. 35 kg | 2,0 m            | approx. 10 kg | 2,0 m             | approx. 8 kg  |
| 2,0 m  | approx. 45 kg | 3,0 m            | approx. 15 kg | 3,0 m             | approx. 12 kg |
| 2,5 m  | approx. 55 kg | 4,0 m            | approx. 20 kg | 4,0 m             | approx. 16 kg |
|        |               | 5,0 m            | approx. 25 kg | 5,0 m             | approx. 20 kg |
|        |               | 6,0 m            | approx. 30 kg | 6,0 m             | approx. 24 kg |

Veranda HRV80-ZIP, having the width of 2.5 metres and height of 2 metres, weighs approx. 65 kg.

## Veranda HRV80-ZIP

### Basic product specification

#### Section BOX

Material: extruded aluminium, powder-coated.

Wall thickness: 2.5 mm.

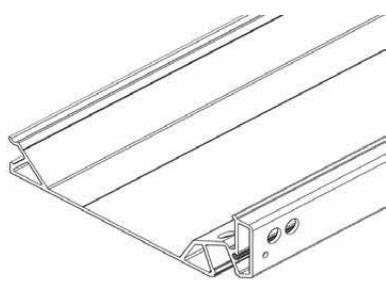
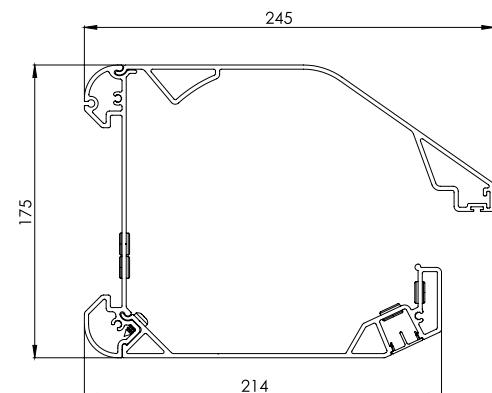
Dimensions: 245 mm x 175 mm

Consists of two parts:

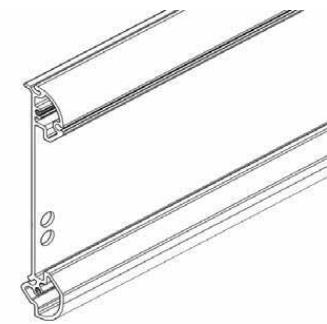
- removable tapered upper section or cover,
- fixed bottom section.

The fabric guiding section is attached to the fixed section that leads the fabric from the box.

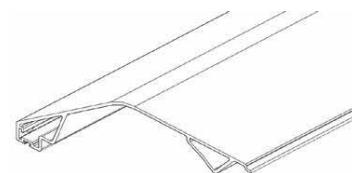
The cover includes a built-in brush.



**Section BOX – bottom**



**Section BOX – rear**



**Section BOX – cover**

#### Bottom section

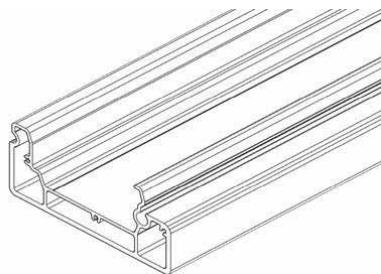
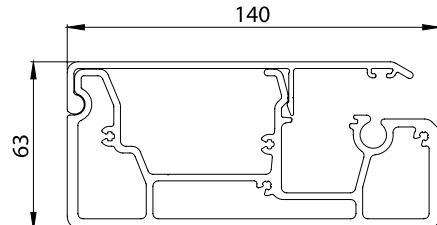
Material: extruded aluminium, powder-coated.

Wall thickness: basic section 4 mm.

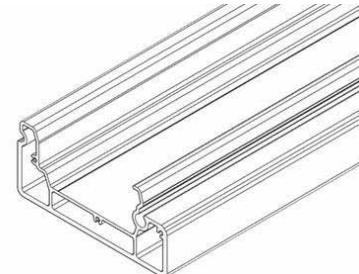
Closing section 2 mm.

Function:

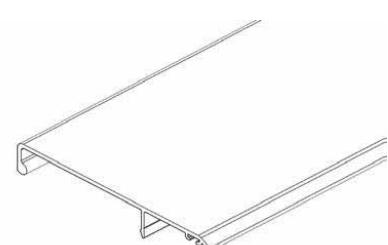
- The basic section is equipped with a groove, into which fabric can be attached.
- The closing section is fitted on the basic section.
- It moves in the lateral guide grooves on special sliding blocks.



**Bottom section up to 4 m**



**Bottom section over 4 m**



**Bottom section – cover**

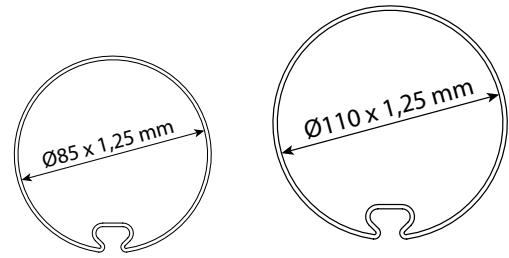
## Winding cylinder

Material: galvanised-steel tube with a groove for attaching the fabric.

Function: unwinding and winding of the fabric

Up to the width of 4000 mm – the shaft diameter is 85 mm

From the width of 4001 mm – the shaft diameter is 110 mm



## Guide rails

Material: extruded aluminium, powder-coated

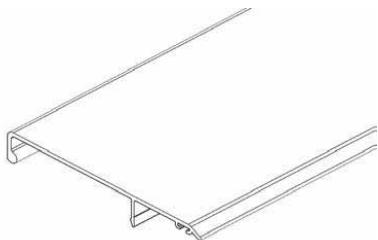
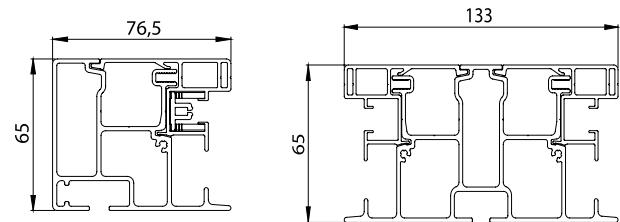
Wall thickness: 1.5 mm

Two types:

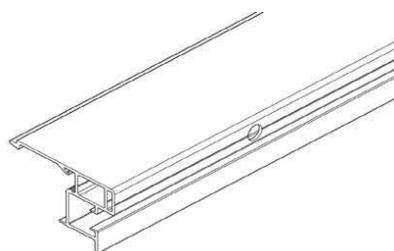
- Lateral guides: installed on the outside, with a groove on one side only.
- Connecting rails: installed in the middle, with grooves on both sides.

The sections have recesses, into which the lateral cover support pins fit.

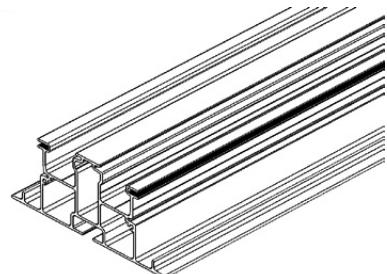
The aluminium end covers have the same colour as the frame.



Guide rail section



Guide rail section – closing

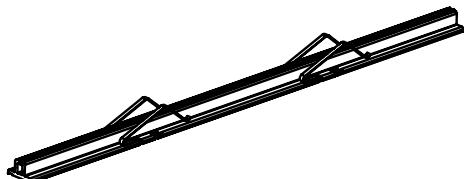


Guide rail section – double

## Zipper-type guide section

Material: extruded PVC clip section.

Function: Absorption of the zipper section on the fabric, making it taut using stain-  
less springs.



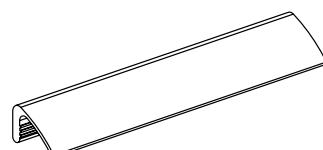
## Clip-On/Clip-Off section

Material: extruded PVC clamps.

Function: Attaching the fabric in the groove without the need to use screws, so that the fabric could be removed moving it to the front instead of pushing it sideways.

Clamp diameter: 3 mm.

Advantage: fast and easy fabric replacement



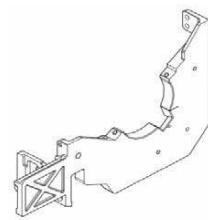
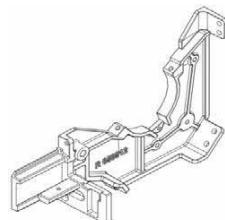
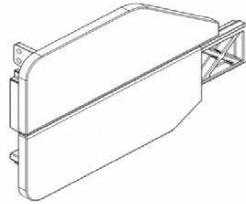
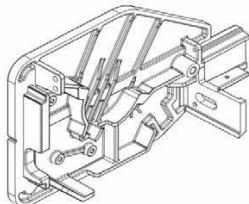
## Side board

Material: cast aluminium, powder-coated.

Colour: same as the frame colour

Dimensions: 214 x 175 mm

There are two types of brackets: side and connecting



**Side board LEFT / RIGHT**

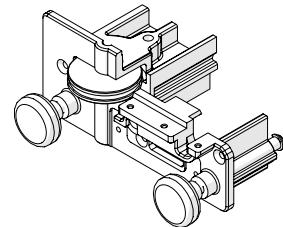
**Central side board – LEFT / RIGHT**

## Sliding blocks

Material: injection-moulded plastic

Function:

- Connecting the extension pole and guide rails, fitted with a sliding surface that meshes into the running surface of the guide rail.
- They are screwed into the left and right of the end of the bottom section.



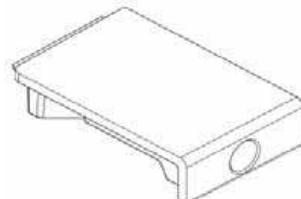
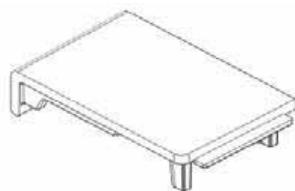
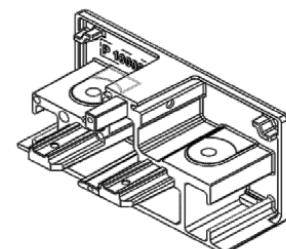
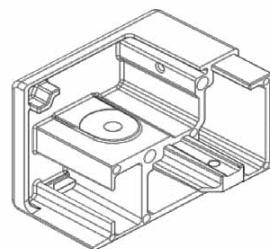
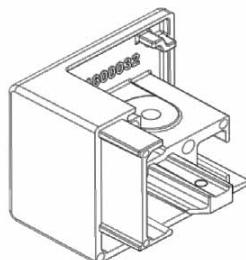
## Guide rail covers

Material: cast aluminium, powder-coated.

Colour: same as the frame colour

Function:

- Covering the guide rails
- Guiding the cord

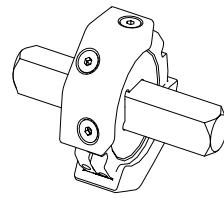


## Tension system

Material: castors, axles, etc. are made of non-corroding materials.

Function: The fabric and bottom section can be kept under constant tension using a spring, castors and Ø 2.7 mm cord.

This keeps the fabric at a certain distance from the glass roof when unwound, so that there is a ventilation space between the fabric and the roof (to eliminate accumulated heat).



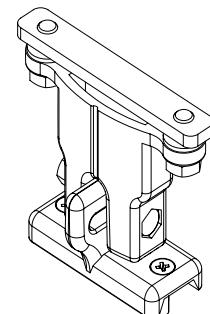
## Connecting parts

Material: Corrosion-resistant material

Function: Pairing two parts of fabric

Adjustable in 8 steps

Note: It is possible that the bottom sections will not simultaneously extend and retract to the fullest, as there may be some slackness in the connection. It is therefore recommended for coupled awnings to place the motor to the widest part.



## Guide rail brackets

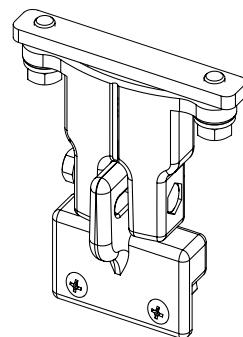
### S: Standard aluminium bracket

Material: aluminium version, powder-coated in the same colour as the frame.

The attachment system has two parts:

- upper part: attached to the lower part of the lateral and central guides.
- lower part – in two versions:

Standard SA guide rail bracket



### A: Standard SA guide rail bracket

- for veranda roof sections with glass above and wooden pergola and veranda systems
- is attached to wood or into the grooves at the top of the sections

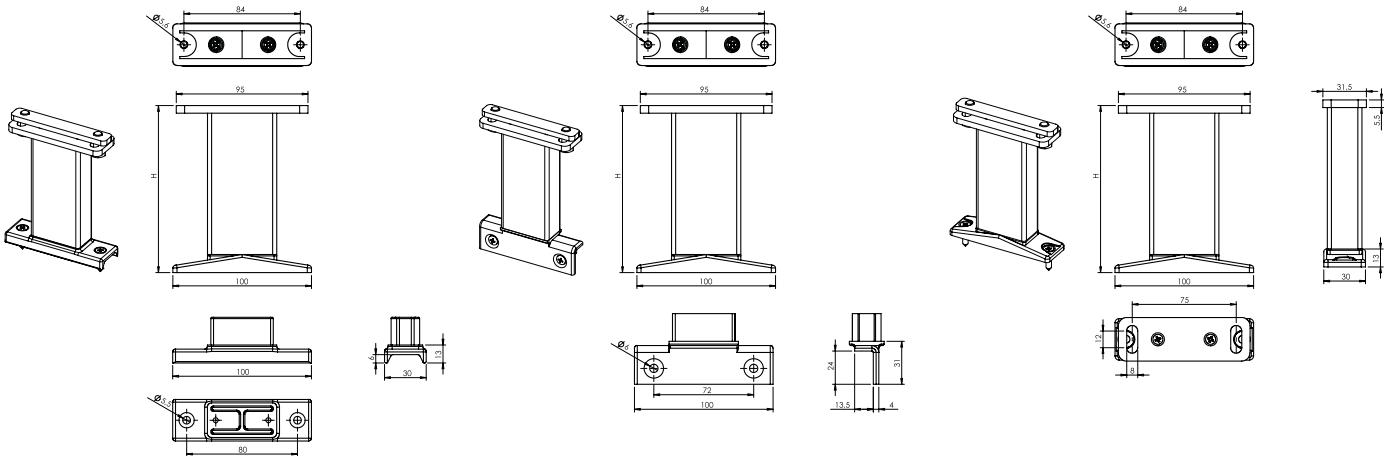
### B: Standard SB guide rail bracket

- for veranda roof sections with glass below
- is attached to the veranda roof section using two screws (fitting B).
- The upper and lower parts can be laterally adjusted to one another.

This allows absorbing positioning deviations between guide section and veranda section.

Standard SB guide rail bracket

## Raised brackets



Bracket VL Av (2-01410-PU11X)

Bracket VL Bv (2-01411-PU11X)

Bracket VL Cv (2-01412-PU11X)

The clearance between the guide rail and the glass can be increased by elevated supports. When doing this, take into account that the veranda sections will be subjected to heavier loads when using elevated supports. For this reason, they can only be used when there is no danger of them twisting. If required, each guide rail must be supported. The raised brackets are available in the lengths of 120 mm, 200 mm, 300 mm or 400 mm. The maximum permitted distance between two guide rail attachment points is 1600 mm.

## Wall attachment

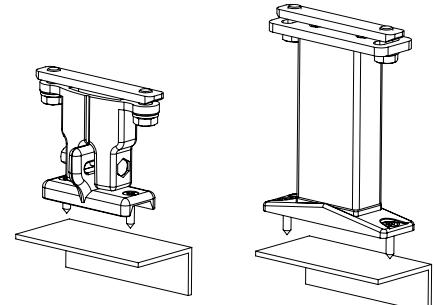
Other installation options:

If it is impossible to use attachment methods A or B, you can use a wall attachment option. There are 3 standardised L-sections available that can be provided in any desired length (while Cv flat supports must always be used).

The following sizes are available:

- Type L1 = 50 x 30 x 3 mm
- Type L2 = 100 x 50 x 3 mm
- Type L3 = 130 x 50 x 5 mm

For extension length up to 3 m, only 1 profile is used. For extension length over 3 m, 2 profile pieces are used.



**Wall attachment**

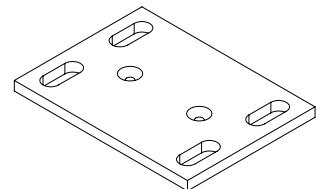
## Coupling two lateral guides

Two veranda sun blinds can be coupled using necessary coupling components.

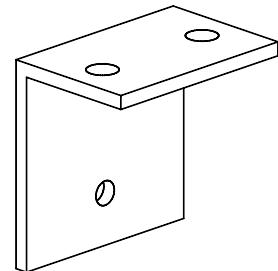
There are two aluminium coupling components:

### Coupling plate:

- The plate is placed underneath the 2 lateral guides. The plate includes 4 holes for the screws to be driven into the grooves of the guide rails (2 per guide rail) to secure the plate.
- There are 3 holes for attaching the raised brackets in the middle of the plate.



**Coupling plate**



**Coupling angle**

### Coupling angle:

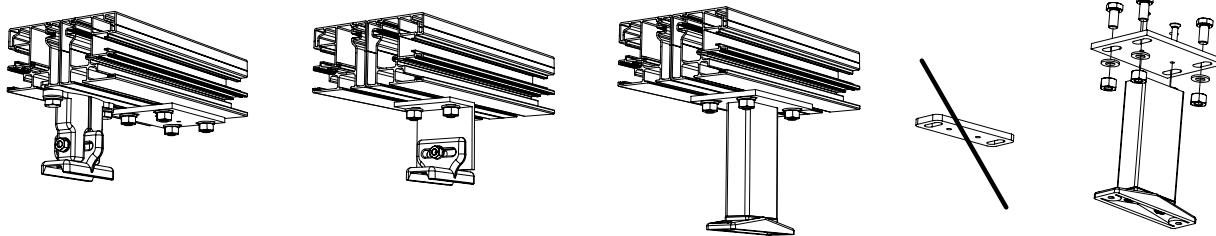
- The angle is placed underneath the 2 lateral guides. The horizontal surface placed underneath the guides contains 2 holes for the screws to be driven into the grooves of the guide rails (1 per guide) to secure the angle.
- The vertical part has 1 hole for attaching the A or B brackets.

### Coupling set:

The set consists of the coupling plate and the coupling angle with corresponding fasteners.

#### Function:

- When using a raised bracket in the middle, the section of the raised bracket is directly attached to the coupling plate. In that case, the upper part of the raised bracket will not be used.
- If the standard bracket is placed in the middle, the upper part of the bracket must be replaced by the coupling angle.
- If the bracket is placed on the left or right side of the guide rail, the coupling is to be independent of the bracket by mounting the coupling plate behind the bracket.



**Bracket placed under  
the left or right guide rail**

**Standard bracket placed  
in the middle**

**Raised bracket placed  
in the middle**

| Height | Number of brackets per guide rail |
|--------|-----------------------------------|
| 1600   | 2                                 |
| 3200   | 3                                 |
| 3500   | 4                                 |
| 6000   | 5                                 |

Note: Cannot be used without the brackets. The guide rail sections are not self-supporting.

### Technical options

|                           |                   |
|---------------------------|-------------------|
| Minimum width per 1 part: | 1.5 m             |
| Maximum width per 1 part: | 6 m               |
| Maximum drop:             | 6 m               |
| Maximum fabric area:      | 25 m <sup>2</sup> |

### Technical options – verandas coupling

| Typ    | Maximum width (m) |            |            |            |   |    |    | Max. area         | Number of verandas | Number of motors |
|--------|-------------------|------------|------------|------------|---|----|----|-------------------|--------------------|------------------|
|        | 1,5               | 3          | 4,5        | 6          | 8 | 12 | 14 |                   |                    |                  |
| Type 1 |                   | 1 veranda  |            |            |   |    |    | 25 m <sup>2</sup> | 1                  | 1                |
| Type 2 |                   | 2 verandas |            |            |   |    |    | 48 m <sup>2</sup> | 2                  | 1*               |
| Type 2 |                   | 2 verandas |            |            |   |    |    | 50 m <sup>2</sup> | 2                  | 2                |
| Type 3 |                   |            | 3 verandas |            |   |    |    | 73 m <sup>2</sup> | 3                  | 2                |
| Type 4 |                   |            |            | 4 verandas |   |    |    | 96 m <sup>2</sup> | 4                  | 2                |

\* From a width of 4001 mm for one part of fabric: only Soltis 86 and Soltis 92 fabrics can be used

Note: Due to weight, the bottom profile for larger widths may sag.

## Controls

The installation is driven by a tubular motor 230 V (50 Hz) located on the far left or far right, as necessary. Control location when viewed from the outside. The standard supply includes the Sunea IO motor type without push buttons, being controlled by an IO transmitter, a 3-metre supply cable, and a wall-mounted, single-pole switch.

Optional:

- 5- or 10-metre supply cable
- The distance can be increased by using a connecting box.
- No switch.

**• Motor with automatic pre-setting; the shade will always fully retract (Orea WT):**

- no control push-buttons; the end positions will be set by a cable and regulating set,
- parallel connection (number acc. to the switch type),
- 3-metre supply cable,
- wall-mounted, single-pole switch.

**• Motor with a built-in RTS receiver (Orea RTS):**

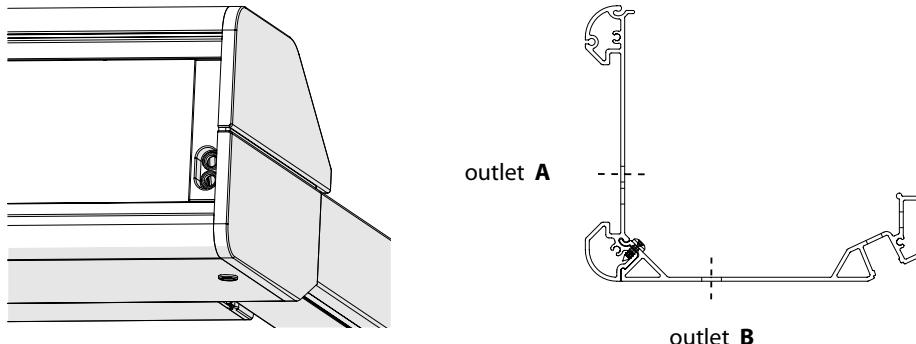
- 3-metre supply cable – a 5, 10-metre cable can also be used,
- wall-mounted RTS transmitter – optionally without the wall-mounted RTS transmitter.

**• Motor with a built-in IO receiver (Sunea IO):**

- 3-metre supply cable – a 5, 10-metre cable can also be used,
- wall-mounted IO transmitter – optionally without the wall-mounted IO transmitter.

The RTS and IO motors are supplied with activated options for "back shutdown" and "reduced closing force".

## Outlets (cables)



## Accessories:

- Relay boxes,
- Controls using the wind/sun sensor,
- Time switches,
- Remote control,
- and others.

## Motor control

Types of motors

### VERANDA HRV80-ZIP

| item name               | trade name - abbreviation 2 | order number - abbreviation 1 |
|-------------------------|-----------------------------|-------------------------------|
| Motor OREA 50 WT 40/17  | MR 096/40                   | 6-001550-0040                 |
| Motor OREA 60 WT 55/17  | MR 096/55                   | 6-001550-0055                 |
| Motor OREA 60 WT 70/17  | MR 096/70                   | 6-001550-0070                 |
| Motor OREA 60 WT 85/17  | MR 096/85                   | 6-001550-0085                 |
| Motor OREA 50 RTS 40/17 | MR 092/40                   | 6-011171-0040                 |
| Motor OREA 60 RTS 55/17 | MR 092/55                   | 6-011171-0055                 |
| Motor OREA 60 RTS 70/17 | MR 092/70                   | 6-011171-0070                 |
| Motor OREA 60 RTS 85/17 | MR 092/85                   | 6-011171-0085                 |
| Motor Sunea 50 io 40/17 | MR 134/40                   | 6-012559-4017                 |
| Motor Sunea 60 io 55/17 | MR 134/55                   | 6-012559-5517                 |
| Motor Sunea 60 io 70/17 | MR 134/70                   | 6-012559-7017                 |
| Motor Sunea 60 io 85/17 | MR 134/85                   | 6-012559-8517                 |

### Types of motors (BECKER) for Veranda HRV80-ZIP

| item name                     | trade name - abbreviation 2 | order number - abbreviation 1 |
|-------------------------------|-----------------------------|-------------------------------|
| Motor BECKER 50 E 40/17       | 17BE                        | 6-017852-0040                 |
| Motor BECKER 60 E 60/17       | 17BE                        | 6-017852-0060                 |
| Motor BECKER 50 E 40/17       | BC40                        | 6-017852-0040                 |
| Motor BECKER 60 E 60/17       | BE60                        | 6-017852-0060                 |
| Motor BECKER 60 E 70/17       | BE70                        | 6-017852-0070                 |
| Motor BECKER 60 E 120/11      | BE120                       | 6-017852-0120                 |
| Motor BECKER 50 C 40/17       | 16BC                        | 6-017853-0040                 |
| Motor BECKER 60 C 60/17       | 16BC                        | 6-017853-0060                 |
| Motor BECKER 50 C 40/17       | BC40                        | 6-017853-0040                 |
| Motor BECKER 60 C 60/17       | BC60                        | 6-017853-0060                 |
| Motor BECKER 60 C 70/17       | BC70                        | 6-017853-0070                 |
| Motor BECKER 60 C 120/11 PLUS | BC120                       | 6-018886-0120                 |

Note: E=electronic motor, C=radio motor

# VERANDA HRV80-ZIP

## Measurement and assembly instructions

### 1. General information

To a great extent, the HRV80-ZIP veranda screen allows regulating the sunlight penetration into a room and thus avoids unpleasant high amount of light and heat. The fabric is protected when rolled in the box which is closed by bottom section in the fully retracted position. The box is attached to guide rails.

Safe distance between the fabric and the veranda roof is ensured by the guide rails and the spring system that keeps the fabric taut continuously. This system is designed to easily overcome any small tolerances of roof construction. The whole system is made from corrosion-resistant materials.

There are several installation options available. The standard option is having the HRV80-ZIP blind installed above the veranda, as the most efficient sun protection is above the glazing. Then it can be installed to the veranda sections using the various types of brackets available.

The HRV80-ZIP screen is equipped with a zipper system that ensures the fabric stays properly taut in every position of the bottom section and avoids fabric slipping out from the guide rails. The individual parts of the fabric are always fitted with a zipper on both the left and right side, while the thicker part locks with the plastic zipper section inserted in an aluminium guide rail.

The HRV80-ZIP veranda screen consists of the following parts:

- Box with an easily removable, motor-driven winding cylinder,
- Fabric with a zipper, wound in the box,
- Guide rails for easy connection of the zipper section,
- Bottom section with a spring that keeps the fabric taut.

### 2. Installation options

The HRV80-ZIP screen can be installed in one way only – to the supporting structure top down.

- Exterior installation.
- The fabric is placed on the outside.
- The sun screen is visible from the outside.
- The zipper is on the window side.
- In Soltis 86 and 92 fabric, the aluminium side faces the sun.
- In blackout fabrics, the grey film is on the window side.

Note: It is necessary to observe the minimum slope requirements for the fabrics, otherwise water will accumulate on the fabric, which will bend and possibly deform permanently. This would void the guarantee. If the screen remains open during the rain, water will uncontrollably flow to the sliding blocks of the bottom section. There is no water collecting mechanism (eaves) under the guide rails.

The minimum gradient of slope for Soltis 86 and 92 fabrics is 14°.

With integrated LED illumination, the minimum slope is 14°!

The minimum gradient of slope for blackout fabrics is 14°!

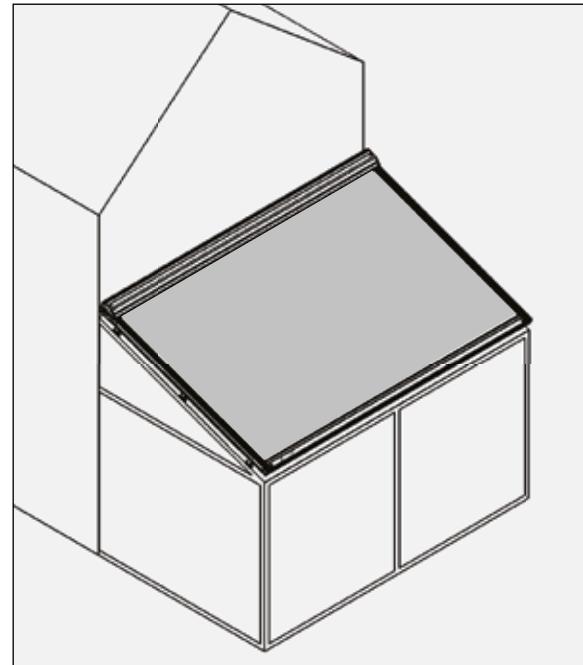
The maximum gradient of slope for all variants is 30°!

If the minimum inclination angle of the fabric is not observed, a support profile must be ordered. Order only on consent statement.

Fabric Infinity:

The minimum gradient of slope for Infinity fabric is 14°

The veranda with extension  $\geq 3200$  mm is covered with horizontal stitching.



### 3. Installation

Note: Ensure perpendicularity of installation at all times, otherwise fabric wrinkling will occur.

See the overview of installation brackets.

Attention: The maximum distance between two guide rail brackets is 1600 mm.

The maximum overhang is 500 mm.

Make sure the box and the bottom profile can always be opened and that the mechanical parts inside are accessible at all times. Should you fail to follow this rule, ISOTRA cannot be held responsible for the cost of demolition work!

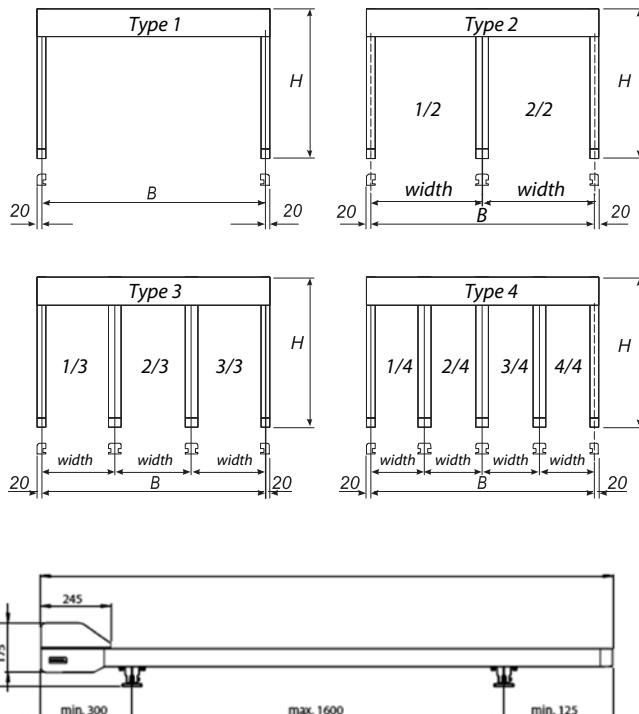
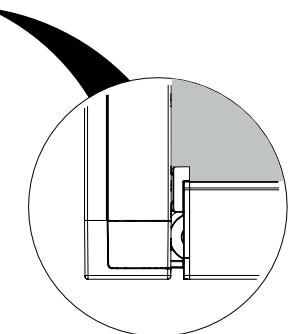
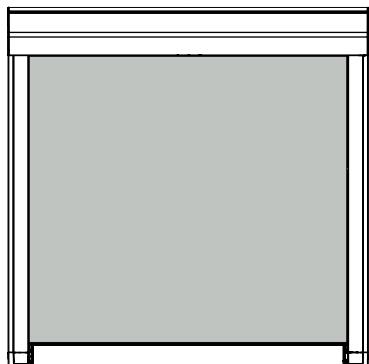
#### 4. Measuring

Overall width = from the centre of the guide rail to the centre of the guide rail. The outer part of the box is always 40 mm (2× 20 mm) wider than the centre of the guide rails or the centre of the attachment brackets.

Drop: measured from the rear part of the box on the upper side touching the wall to the front side of the guide rail including the cover.

The final position of the bottom section can be set flush with the end of the guide rail cover.

Note: The box width is always 40 mm greater than the ordered width.



#### 5. Design

The fabric has zippers on the sides, and if the guide rails are properly installed, these zippers ensure the fabric remains taut in any position of the bottom section thanks to the strain between the zipper and the guide rails.

Cracking may be heard when retracting the screen, which is caused by the fabric tension and by pushing the air from under the fabric when winding up. Creases may also form on the zipper side, caused by different material thicknesses and expansion factors.

In blackout blinds, the zippers are placed on the Soltis side of the fabric, not on the side with the blackout film, in order to attain better adhesion and reduced fabric movement. It is therefore possible that due to wind or if seen at an angle, a small part of the zipper can be seen, but this is insignificant when compared with the overall view or the fabric tension (reduced creasing).

When the 86/92 fabric is used, the zippers are always on the rear side of the fabric – i.e. on the window side. In addition to placing an inscription or a logo to the fabric, it is also possible to inverse the fabric colour or the fabric side on the sun screen.

#### 6. Blackout

The Veranda can also be used to blacking out the room, i.e. to protect it from light coming from the outside during presentations or projections, but it is not a 100% blackout during which it would be possible to develop photographs.

The following must be taken into account to achieve proper blackout:

- It is only possible by using a blackout fabric.
- The spaces between the guide rails, the box, the wall and the window frame must be carefully sealed (for example, by using silicone, strips, etc.).
- Wind action can cause the bottom lath to waft up, and a gap may occur as a result.
- Account should be taken of a small gap between the extension pole and the guide rail.
- Placing an extra angled profile (30×20×2) for the bottom section against the wall reduces the chance of light penetration even more.

## 7. LED osvětlení boxu Verandy – volitelné příslušenství

- remove the aluminium clip profile from the bottom side of the profile
- LED strip is attached, and the opening is covered with a small diffuser profile
- required power supply 230V AC / 24V DC
- each part of the box is equipped with a LED strip and a diffuser, always with its own external power supply, which is located outside the box. IO or RTS or switch (switch is not included)
- LED strip is always installed along the entire width of the veranda. There may be less intense light at the ends of the strip depending on the length of the LED strip
- LED strip is powered by 24V DC, 9.6 W/m source. The lighting colour is warm white.
- LED unit can only be used as supplementary lighting.

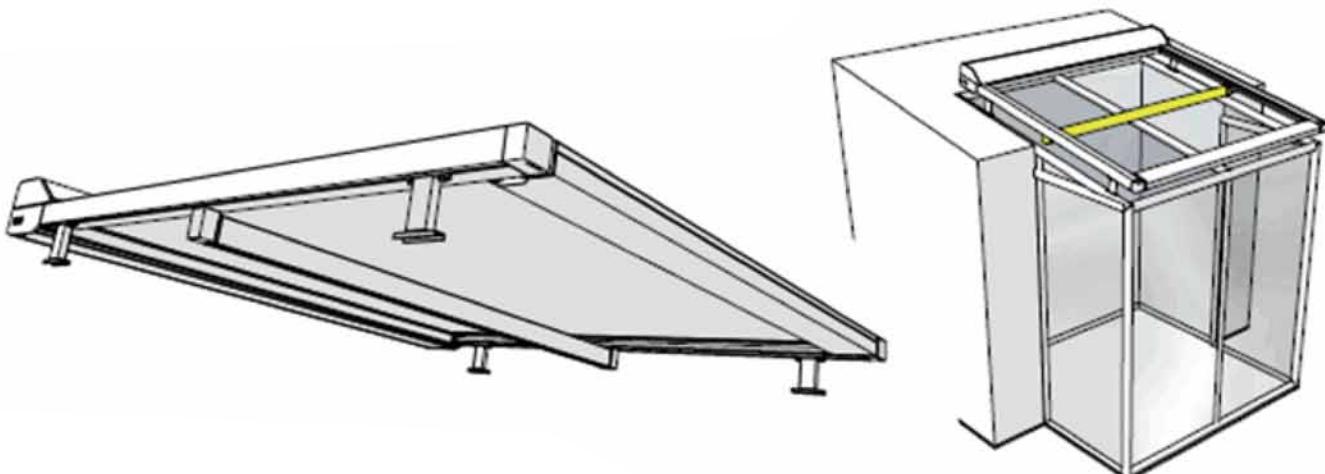
### Control:

1. Dimmable IO control:  
LED lighting cannot be controlled by the Smoove IO controller

2. RTS control:  
The lighting can be controlled by all RTS controllers

3. With no control:  
The included power cable can be connected to a switch (switch is not included)

## 8. Support profile – optional accessory



The support profile is always installed in a fixed position, in the center of the guide rails.

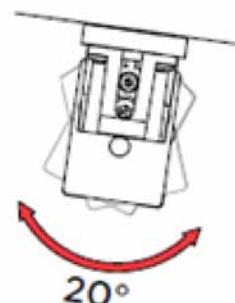
### LED lighting can be installed in the support profile

- The profile can be adjusted in the range of 20° in both directions
- One support profile is supplied as standard

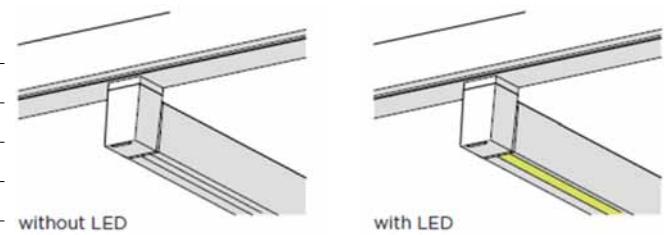
### ATTENTION

**VERANDA HRV80-ZIP – the support profile is supplied automatically for extensions over 4 m.**

**VERANDA HRV80-ZIP pp – the support profile is always supplied.**



| The use of the support profile according to the type of the bracket type used | Support profile |
|---|-----------------|
| Standard type SA bracket (2-01408-PU11)                                       | cannot be used  |
| Standard type SB bracket (2-01409-PU11)                                       | cannot be used  |
| Raised type AV bracket (2-01410-PU11)   | X               |
| Raised type BV bracket (2-01411-PU11)   | X               |
| Raised type CV bracket (2-01412-PU11)   | X               |



## 9. Fixtures and fittings

All fixtures and fitting are made from stainless steel, and all accessories are always part of the supply.

## 10. Packing

The Veranda HRV80-ZIP is supplied packed in robust cardboard boxes.

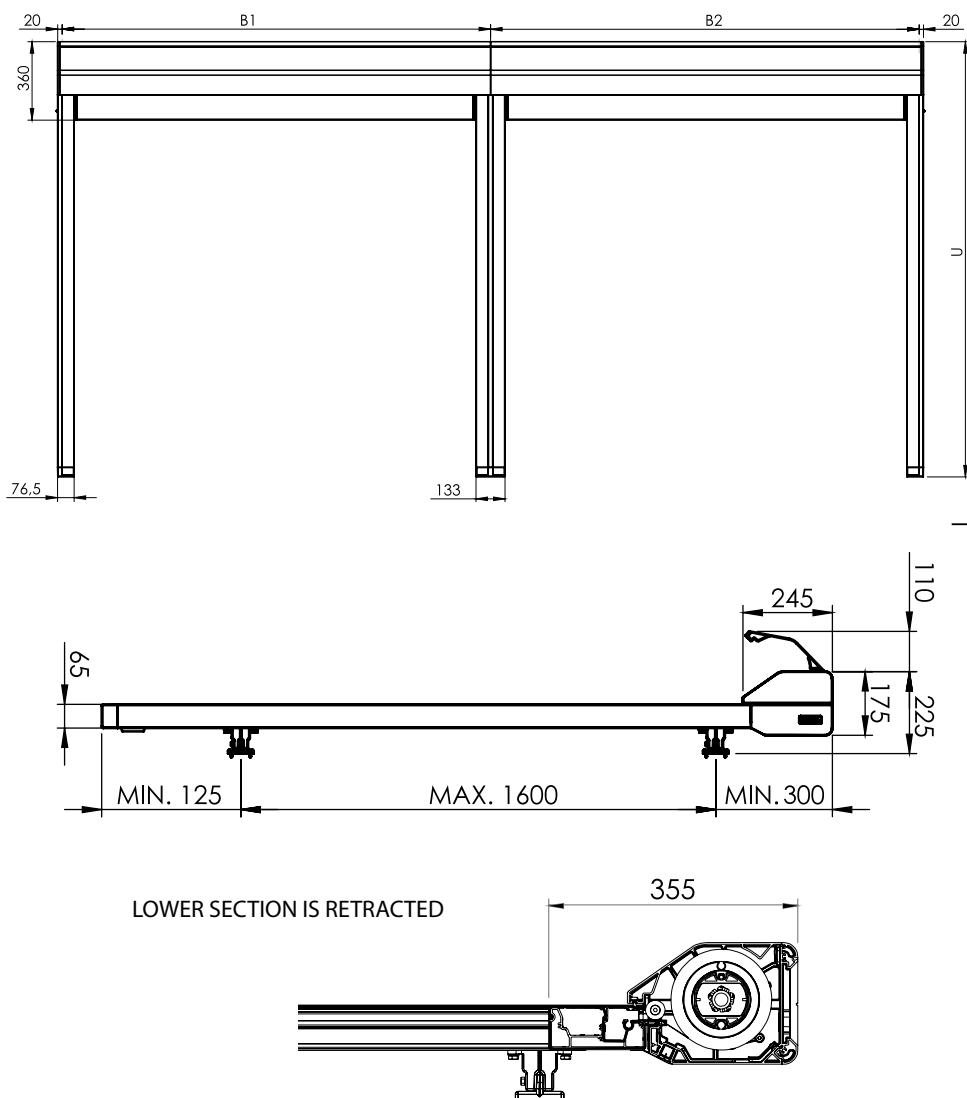
## 11. Use and maintenance

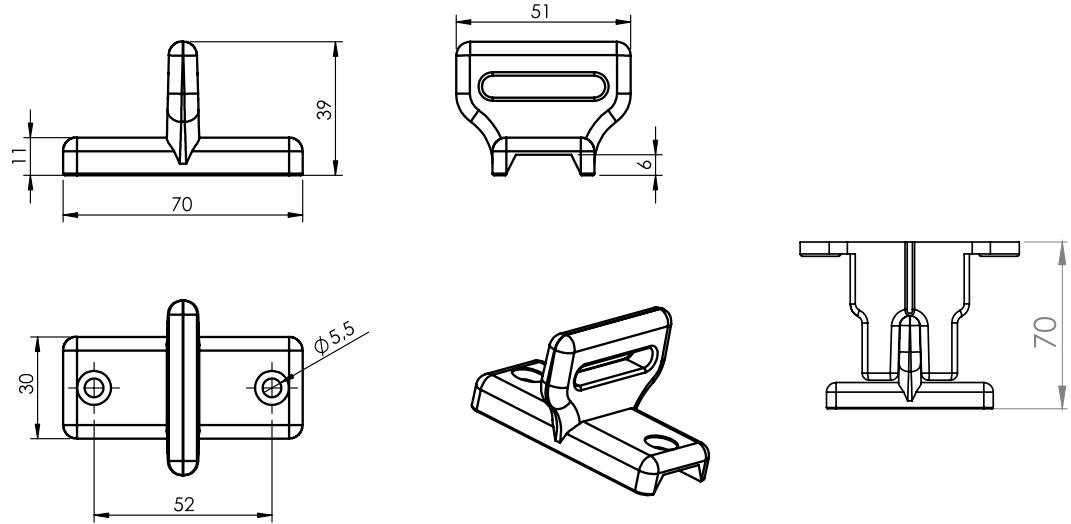
Proper use and maintenance greatly increases the lifetime of the sunblind.

- Do not use the screen as protection against rain or wind.
- Regular maintenance prevents excessive wear and operational problems.
- Cleaning the frame: use soft water instead of aggressive substances, that may affect the coating and protective layers.
- Cleaning the fabric: when dry, with a semi-stiff brush.
- Clean stubborn stains using warm water and light detergent solution, rinse with copious amounts of clean water.
- Always let the fabric dry fully before rolling it up (even after an unexpected rain shower).

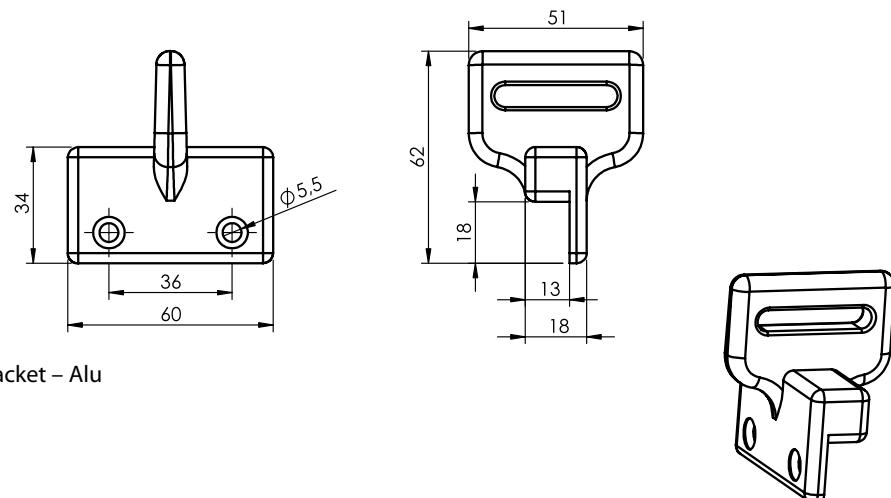
## 12. Safety

To ensure safety of the end user, the veranda must be installed in strict accordance with the installation instructions.

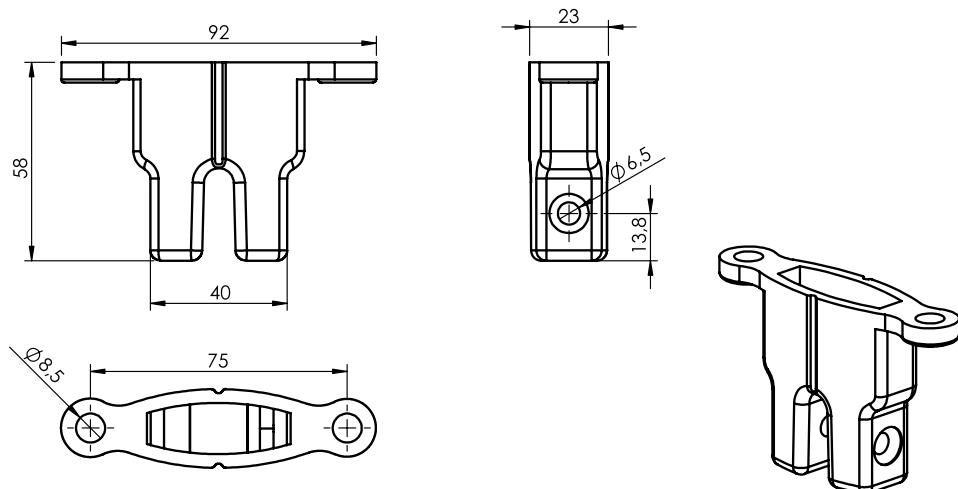




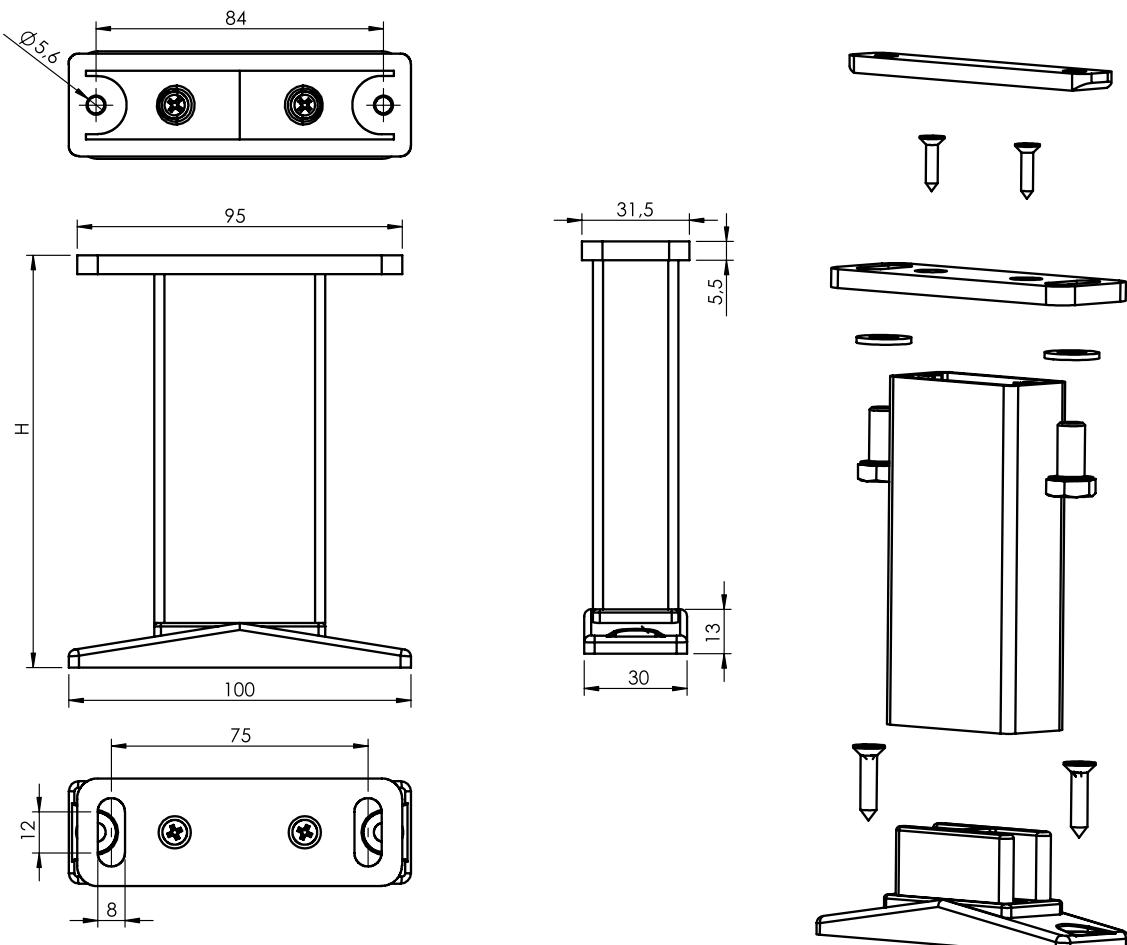
SA bottom bracket – Alu



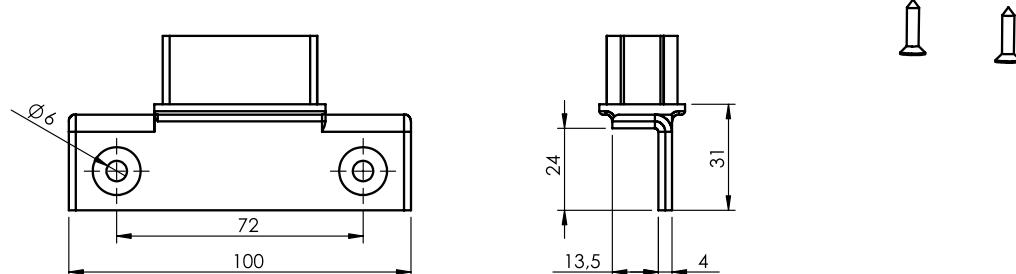
SB upper bracket – Alu



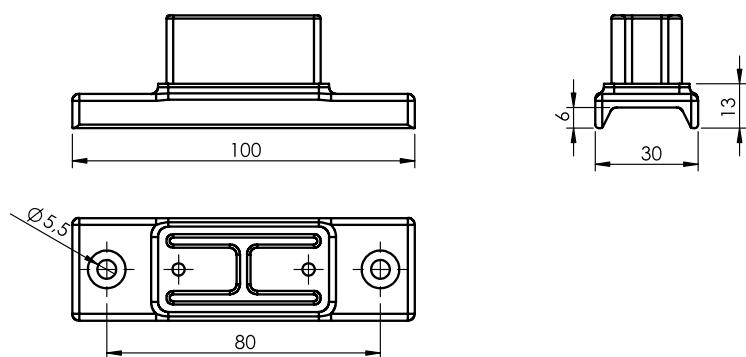
Upper side of the bracket – Alu



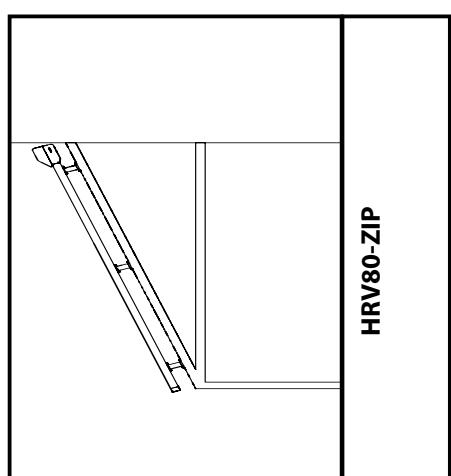
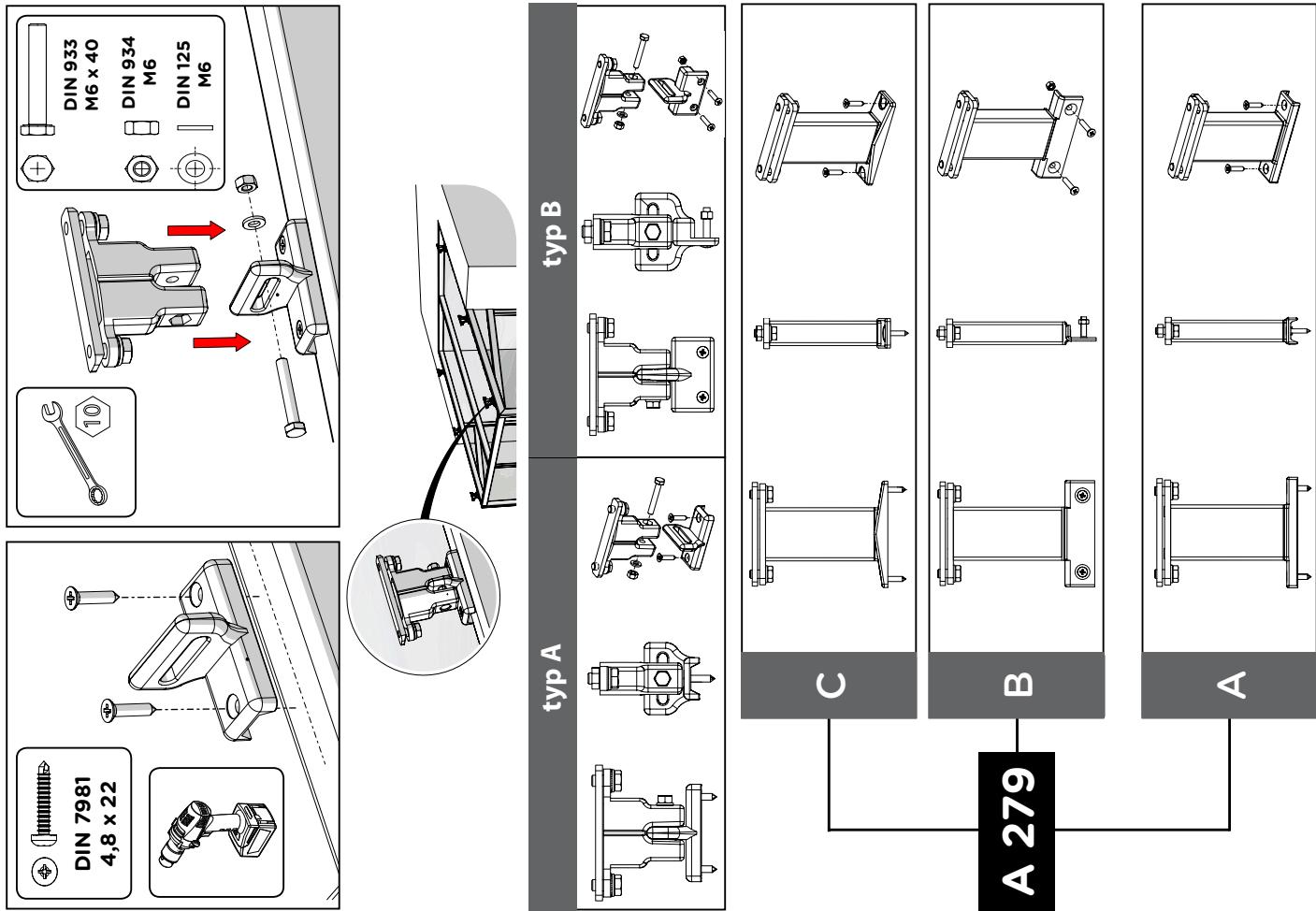
Cv raised bracket – Alu



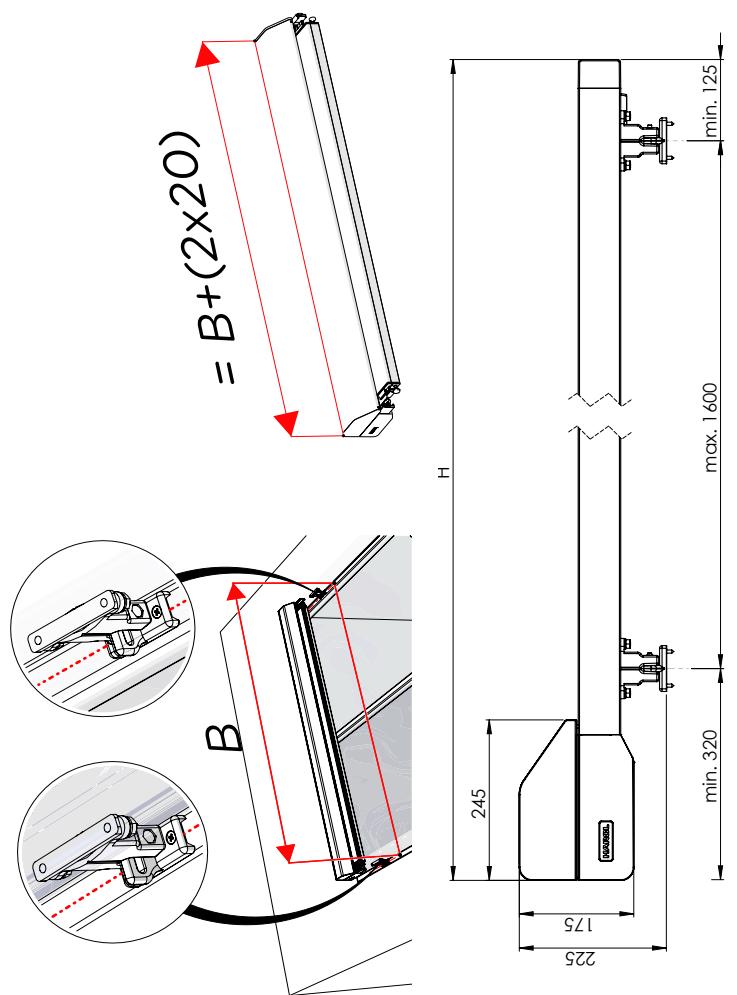
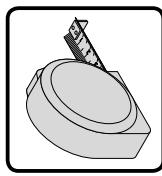
Bv raised bracket foot – Alu

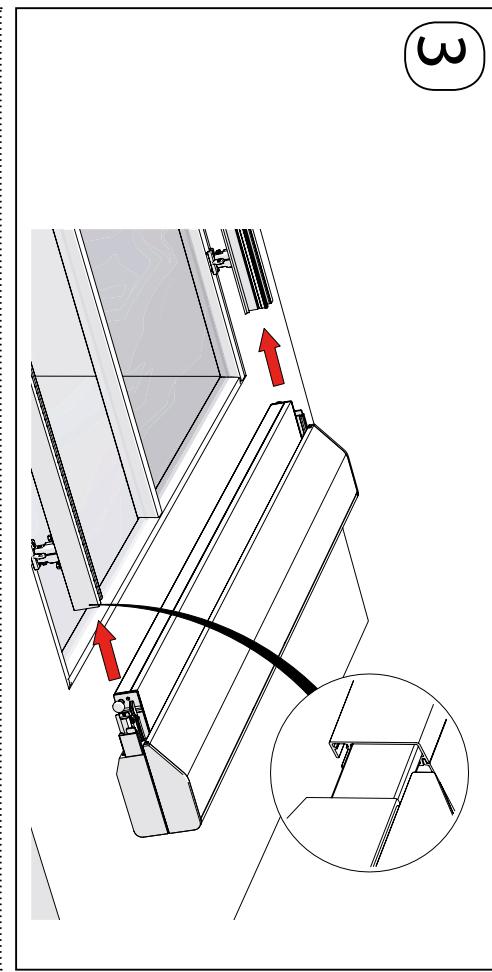
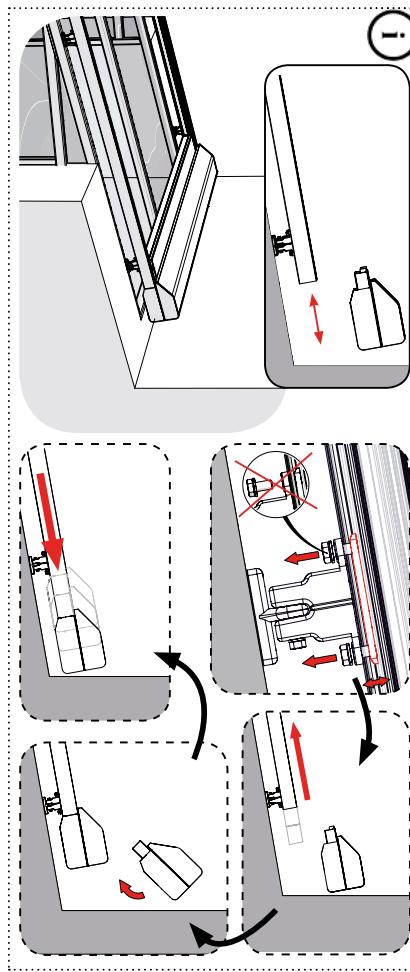
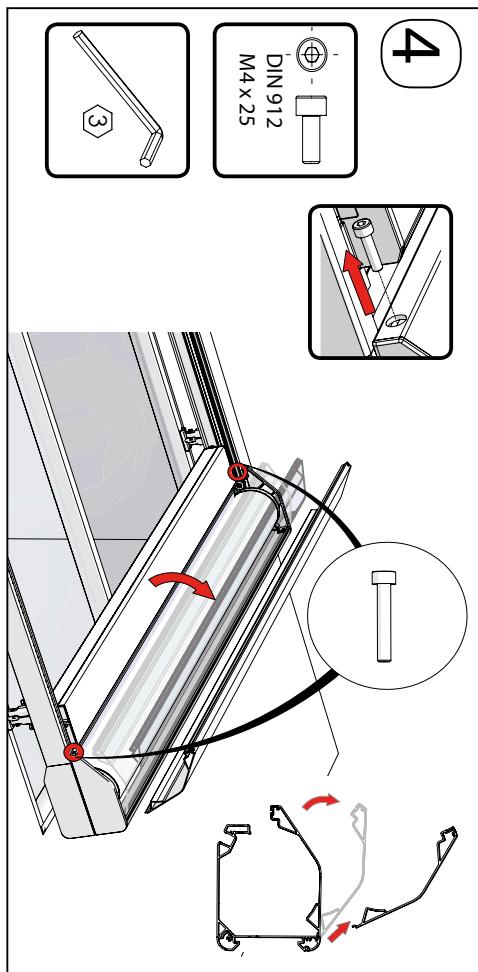
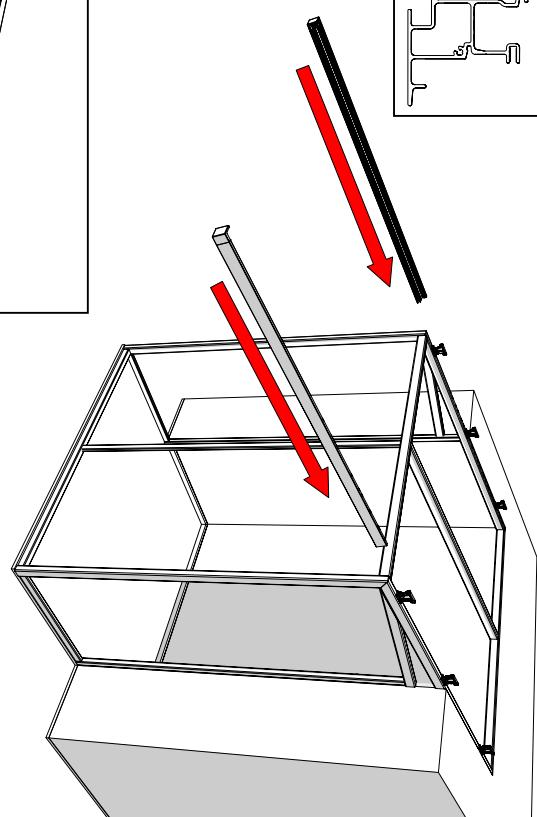
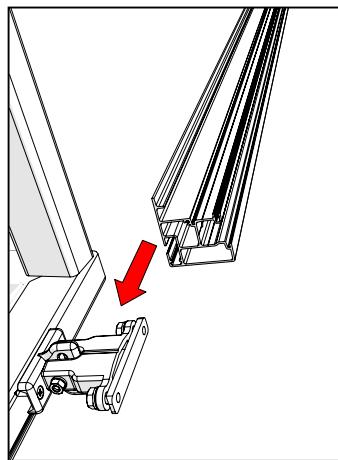
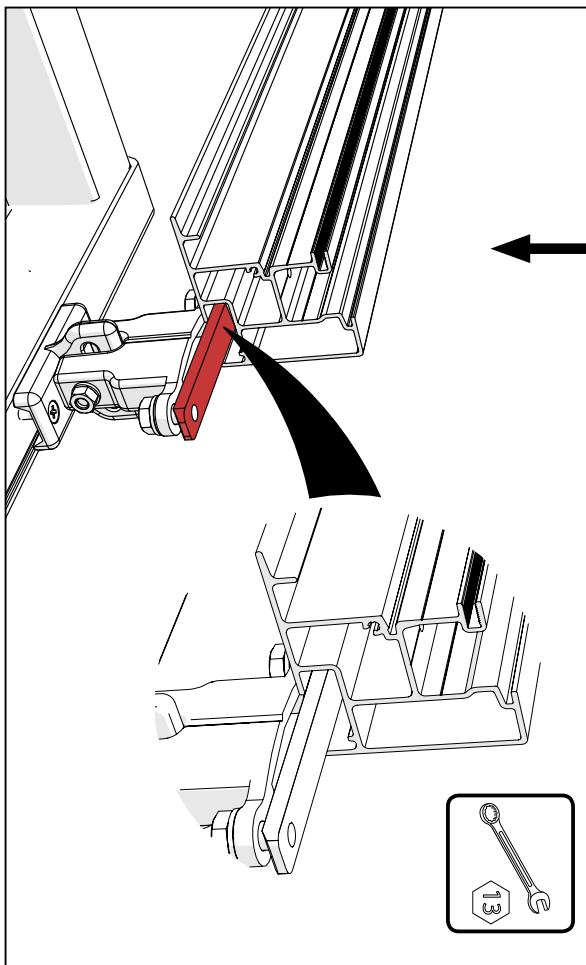


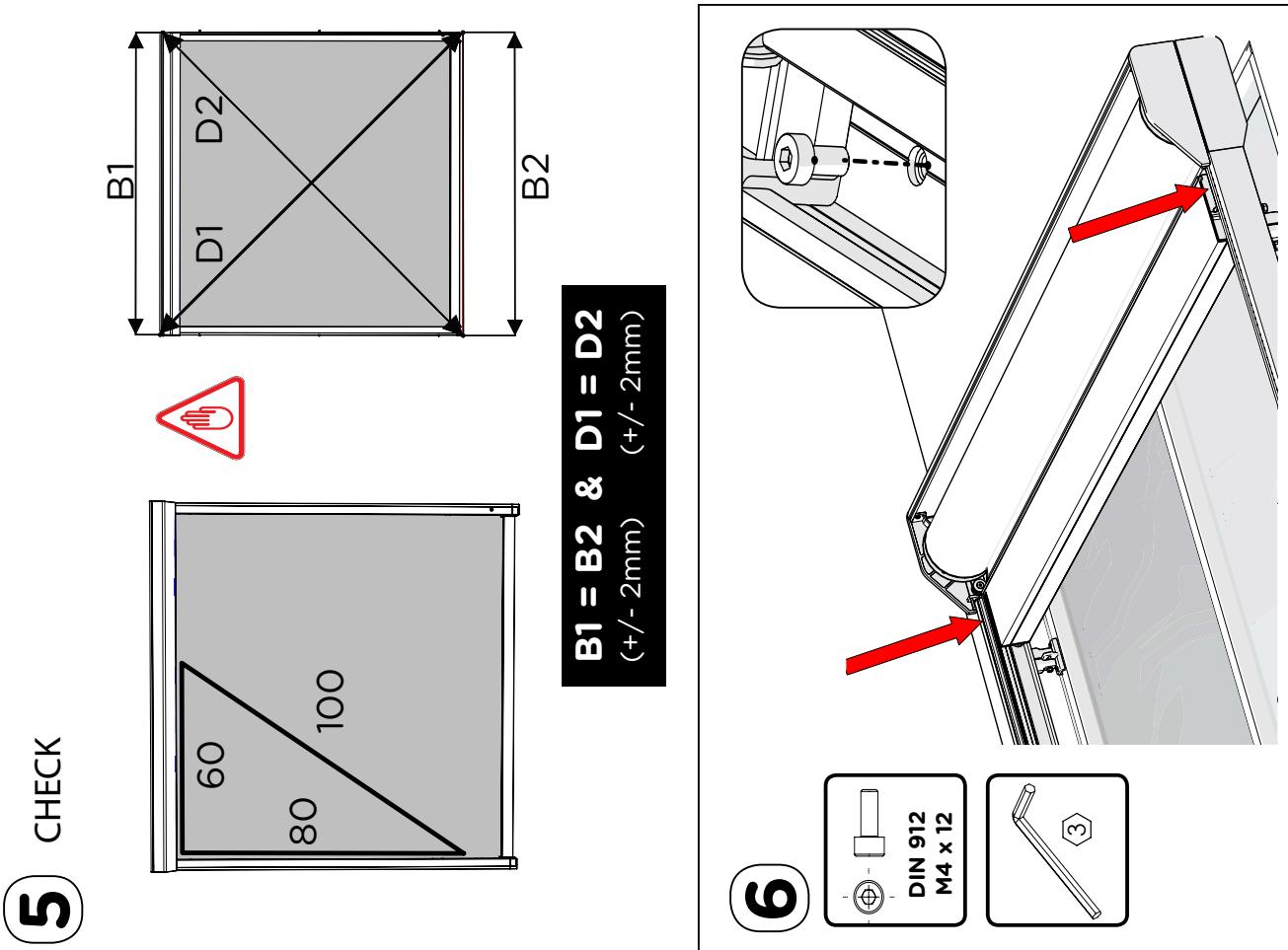
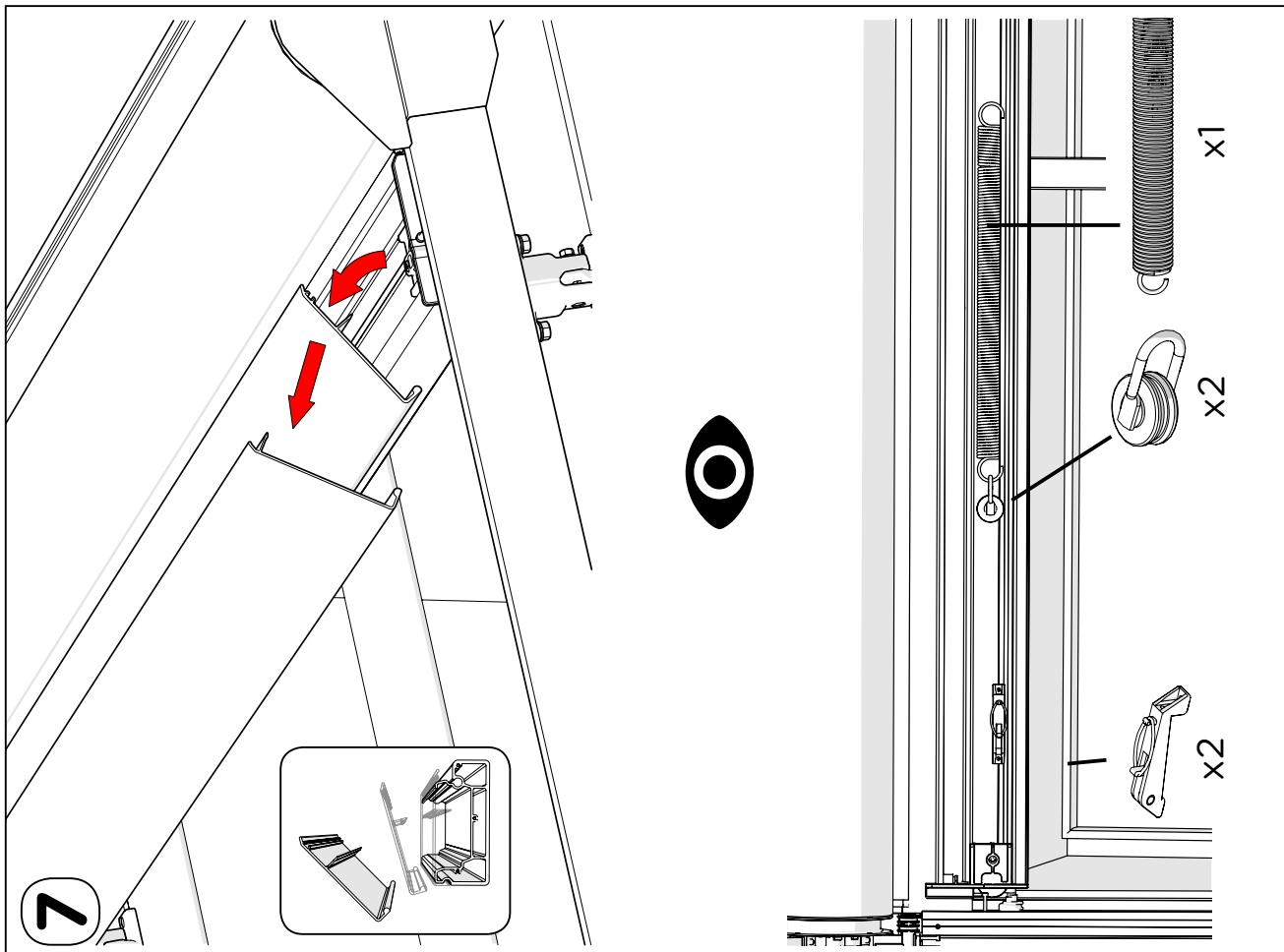
Av raised bracket foot – Alu

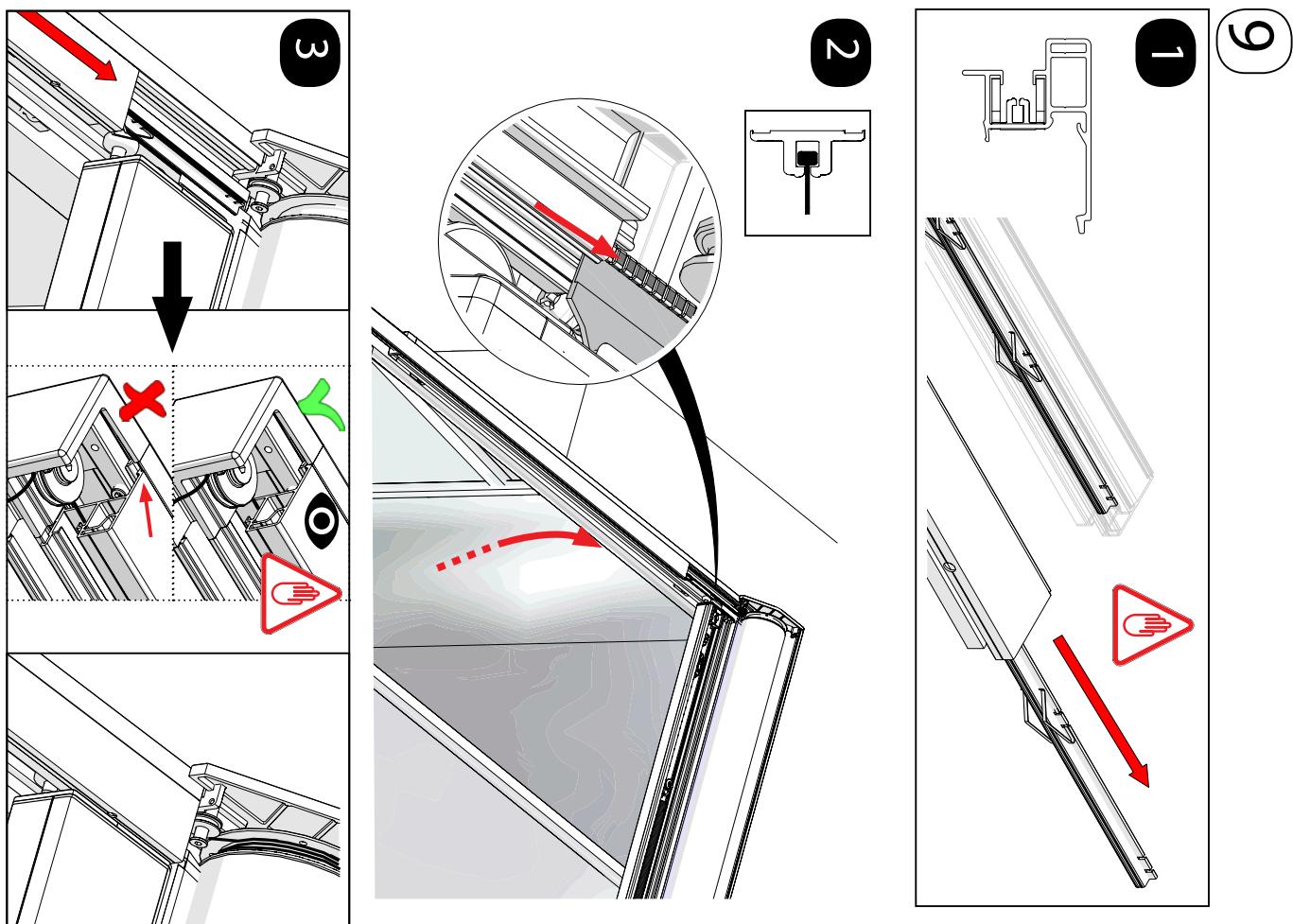
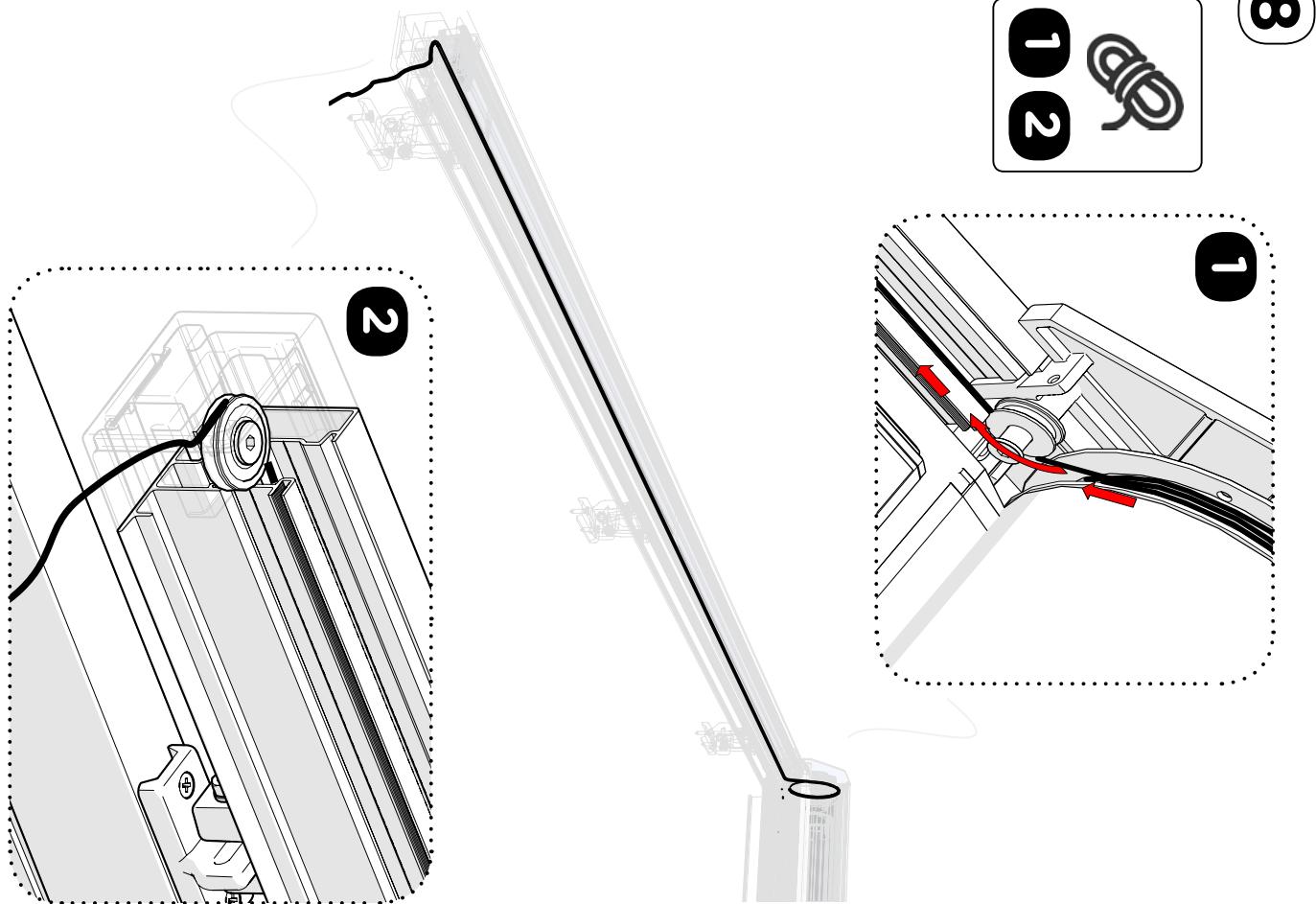


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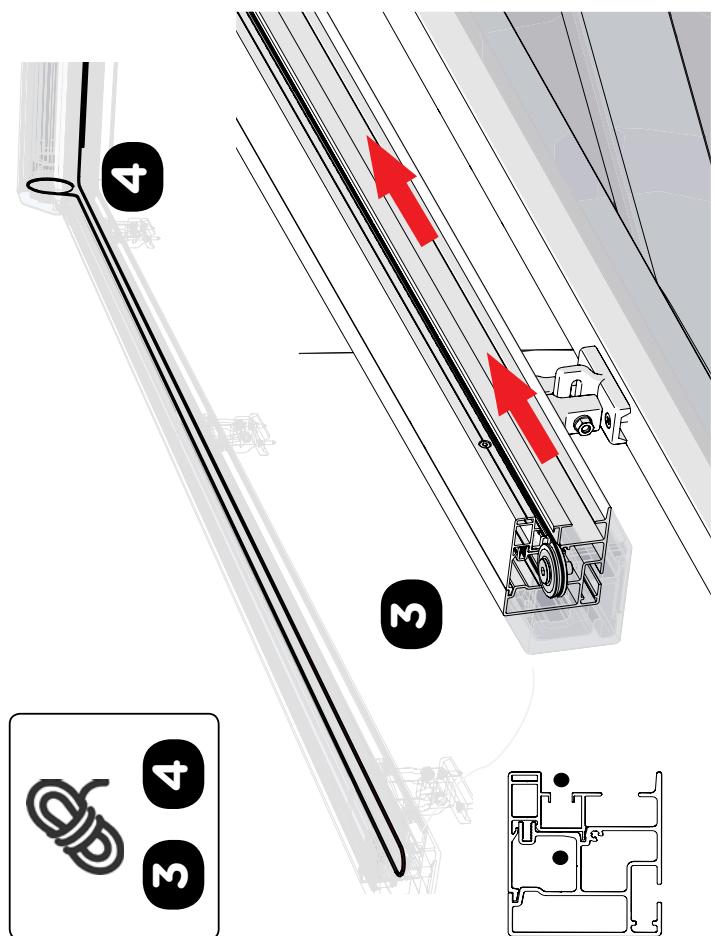
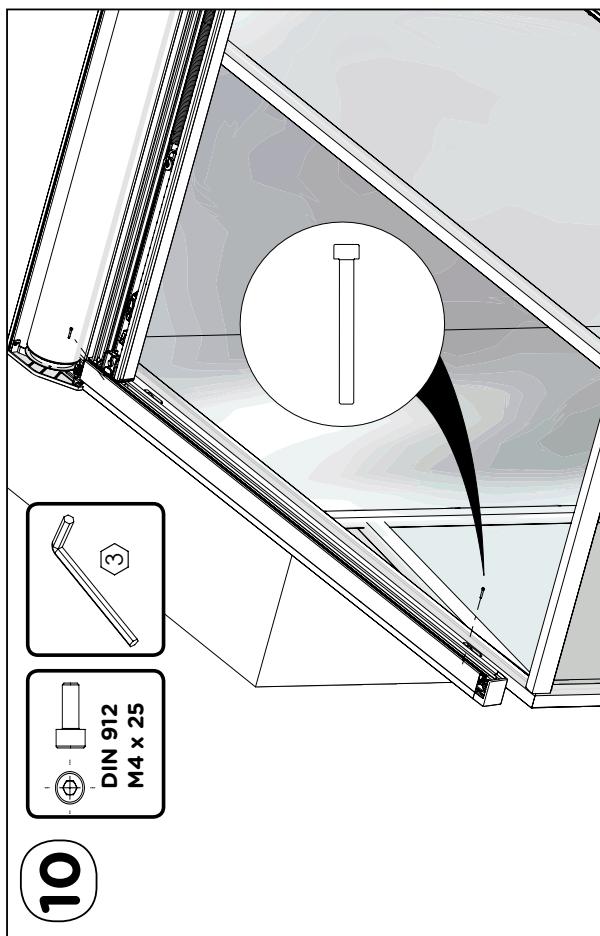
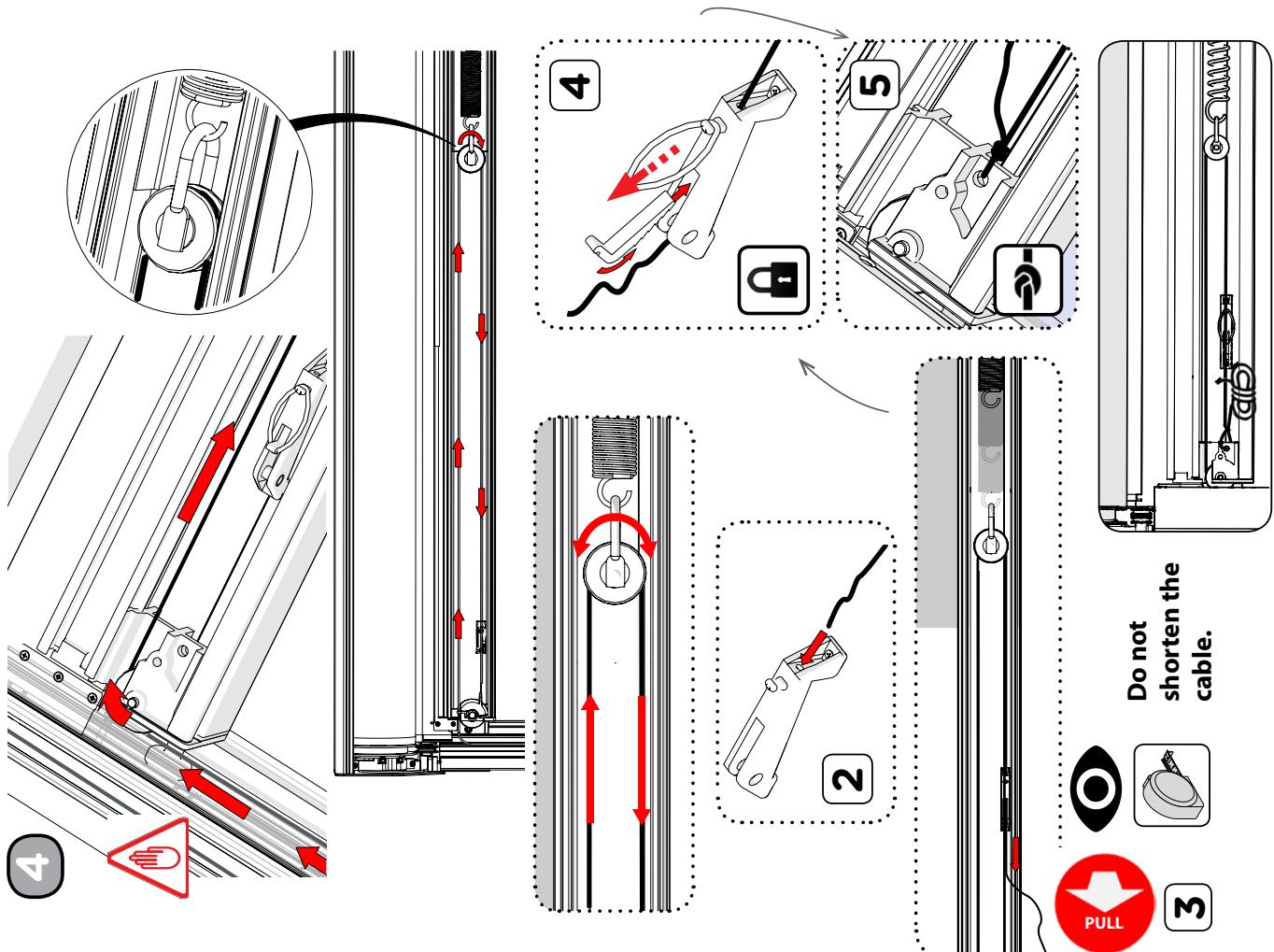
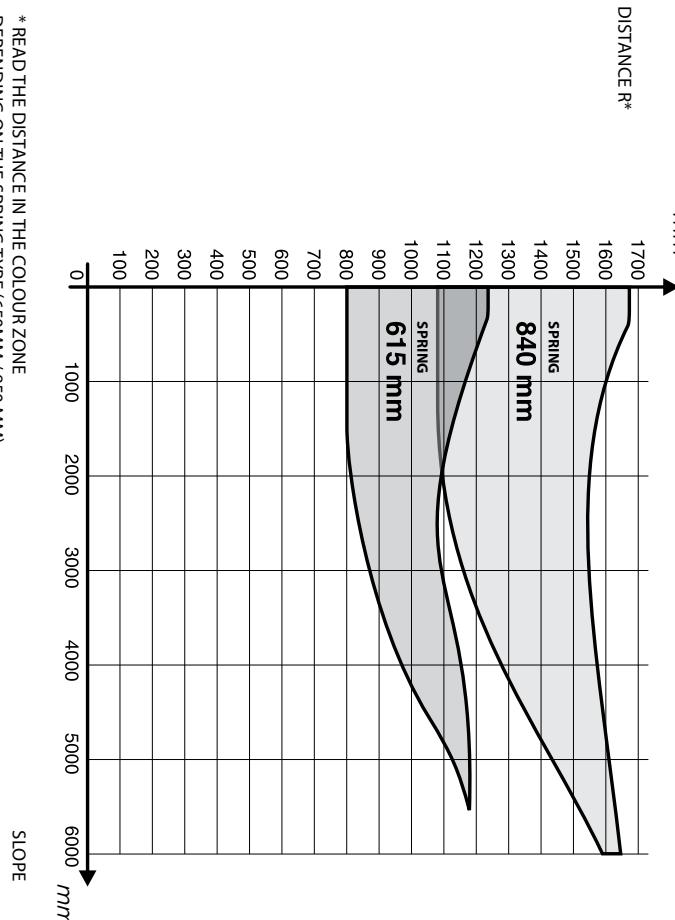
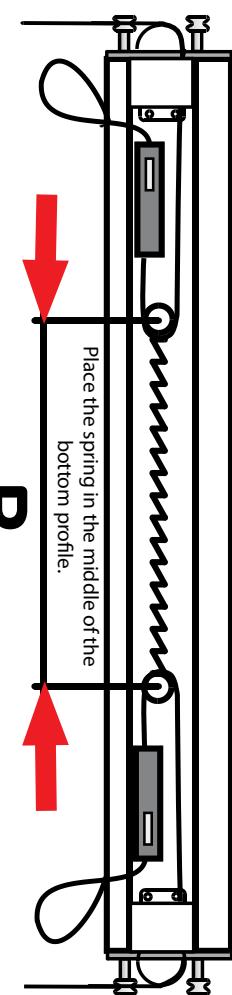
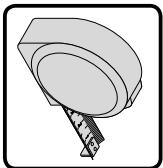
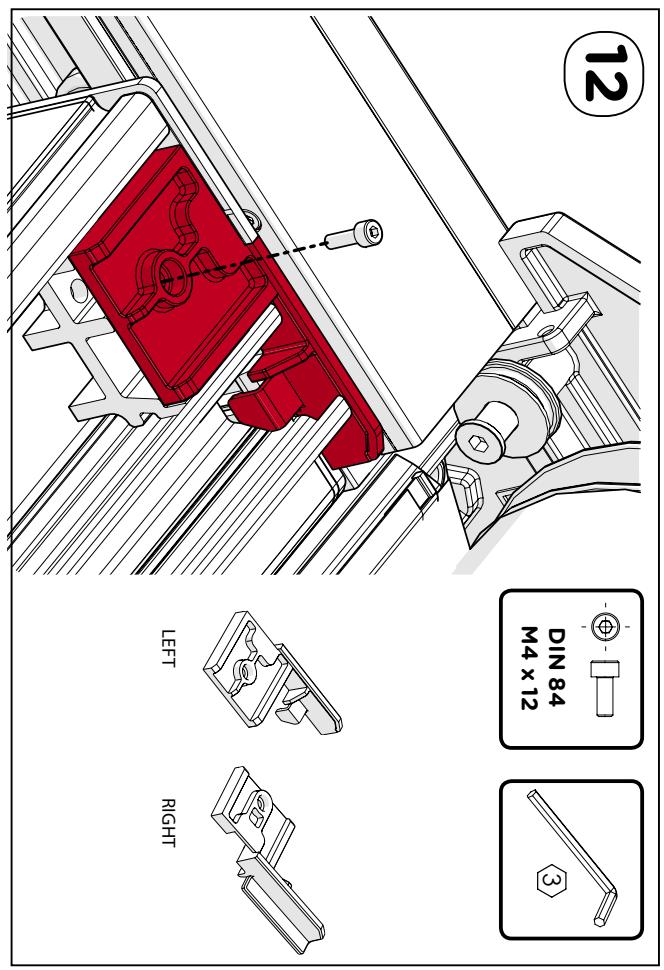
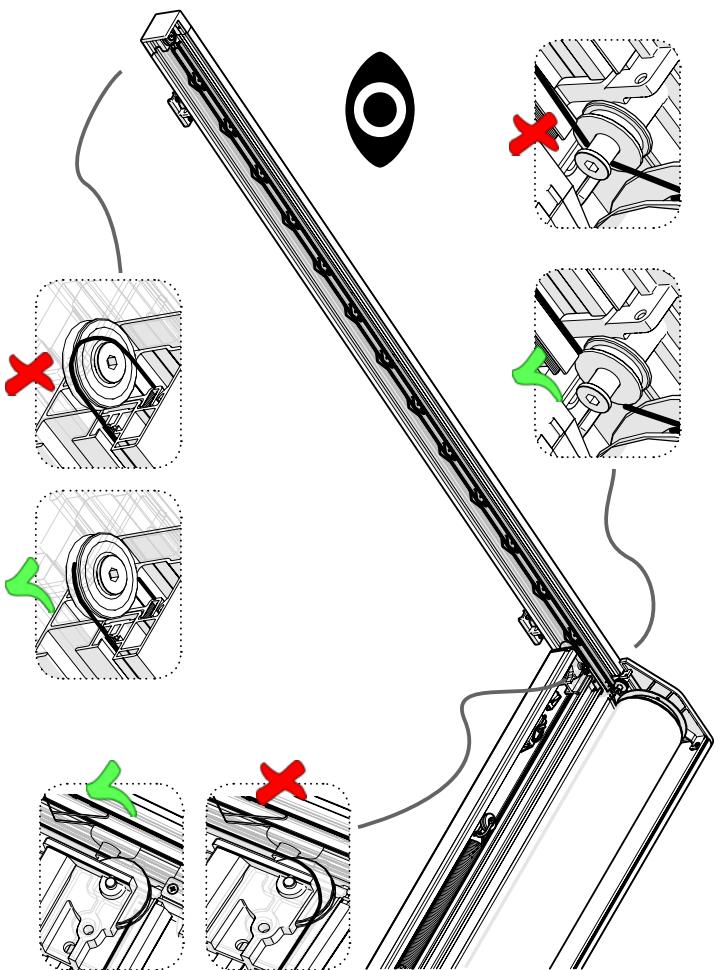


TABLE – SPRING DISTANCE R (IN MM)



\* READ THE DISTANCE IN THE COLOUR ZONE  
DEPENDING ON THE SPRING TYPE (650MM / 850 MM)

Stretch the spring up in the range according to the table (if the spring is overstretched, the fabric may be pulled out of the zipper of the guide rail).

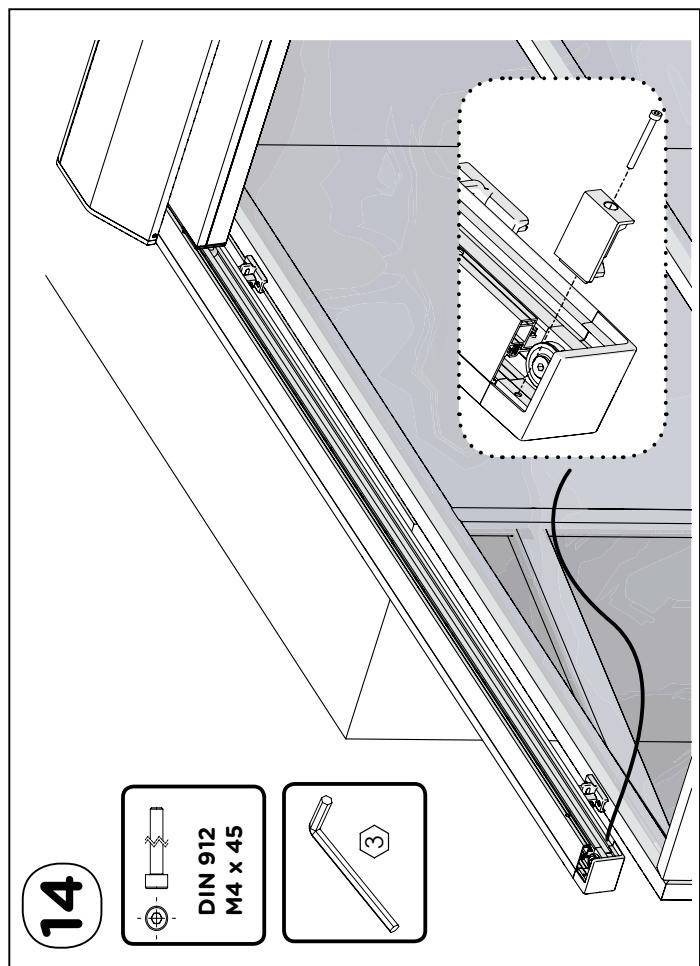
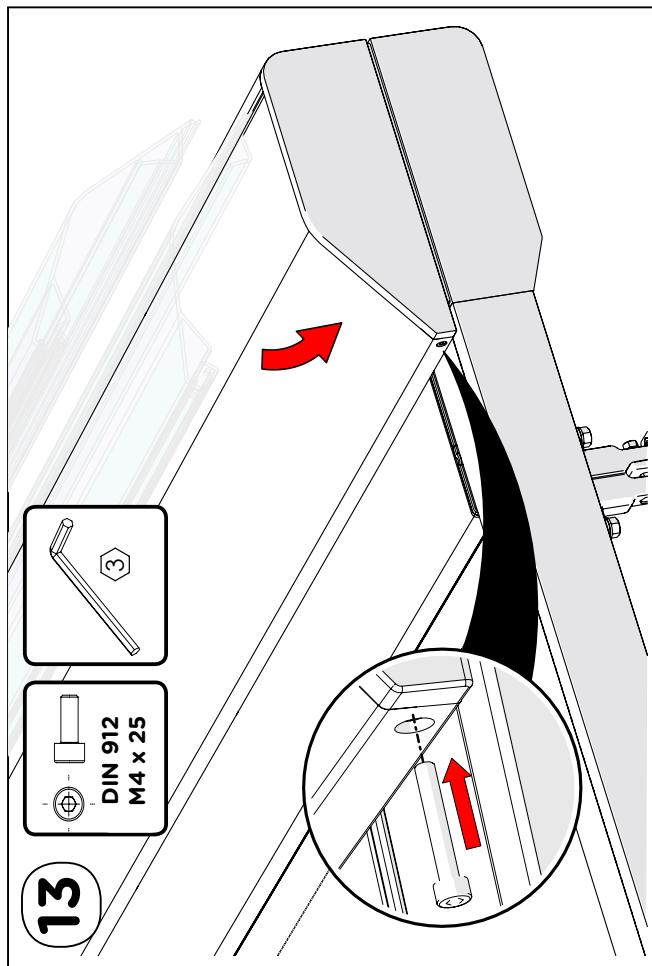
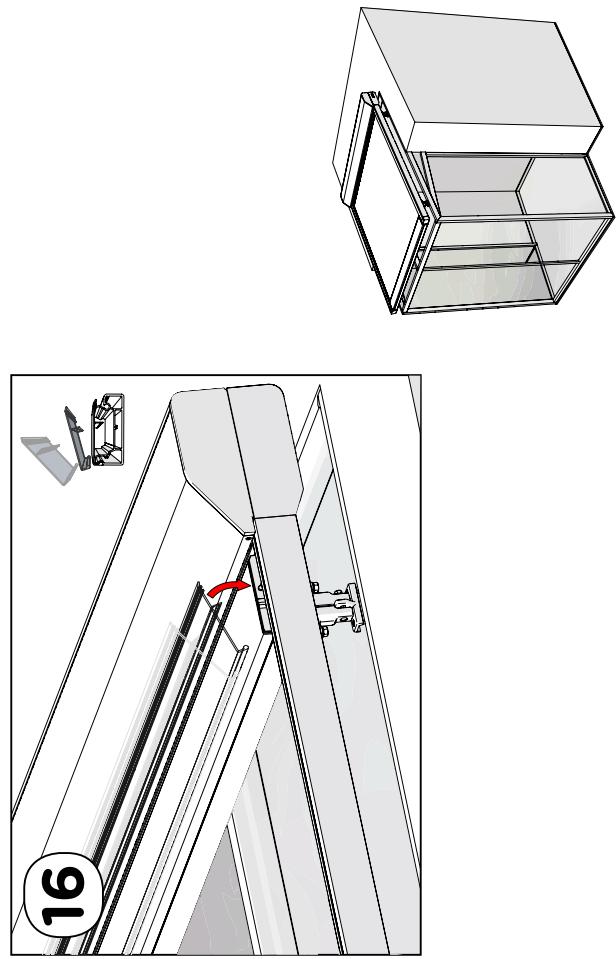
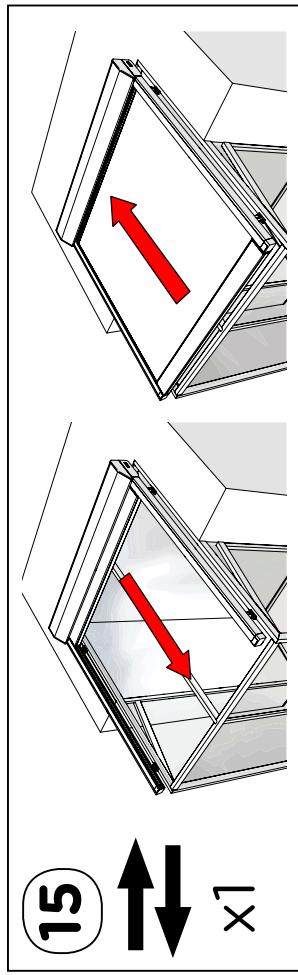
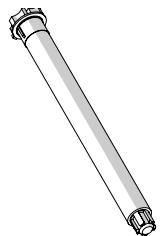


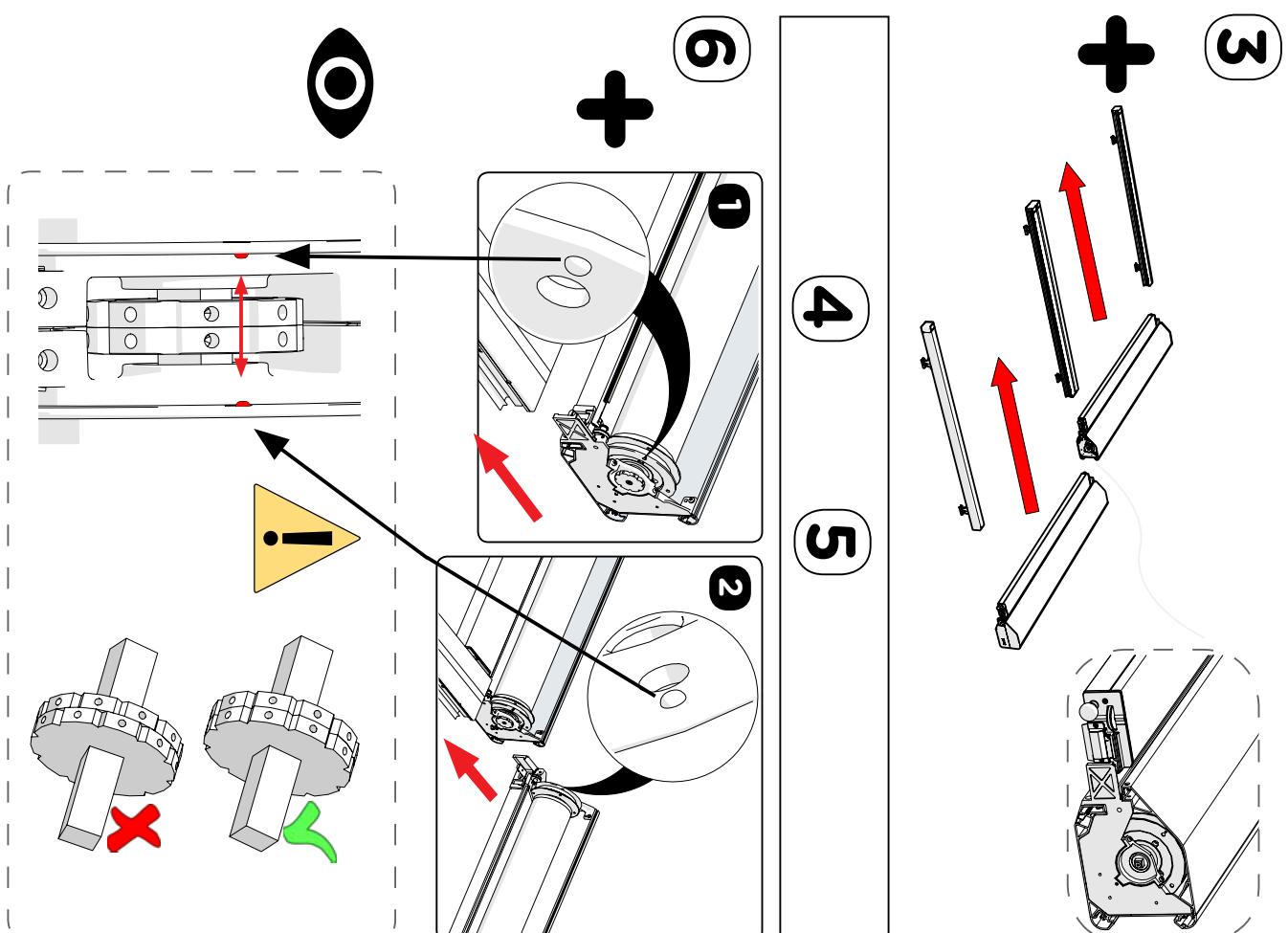
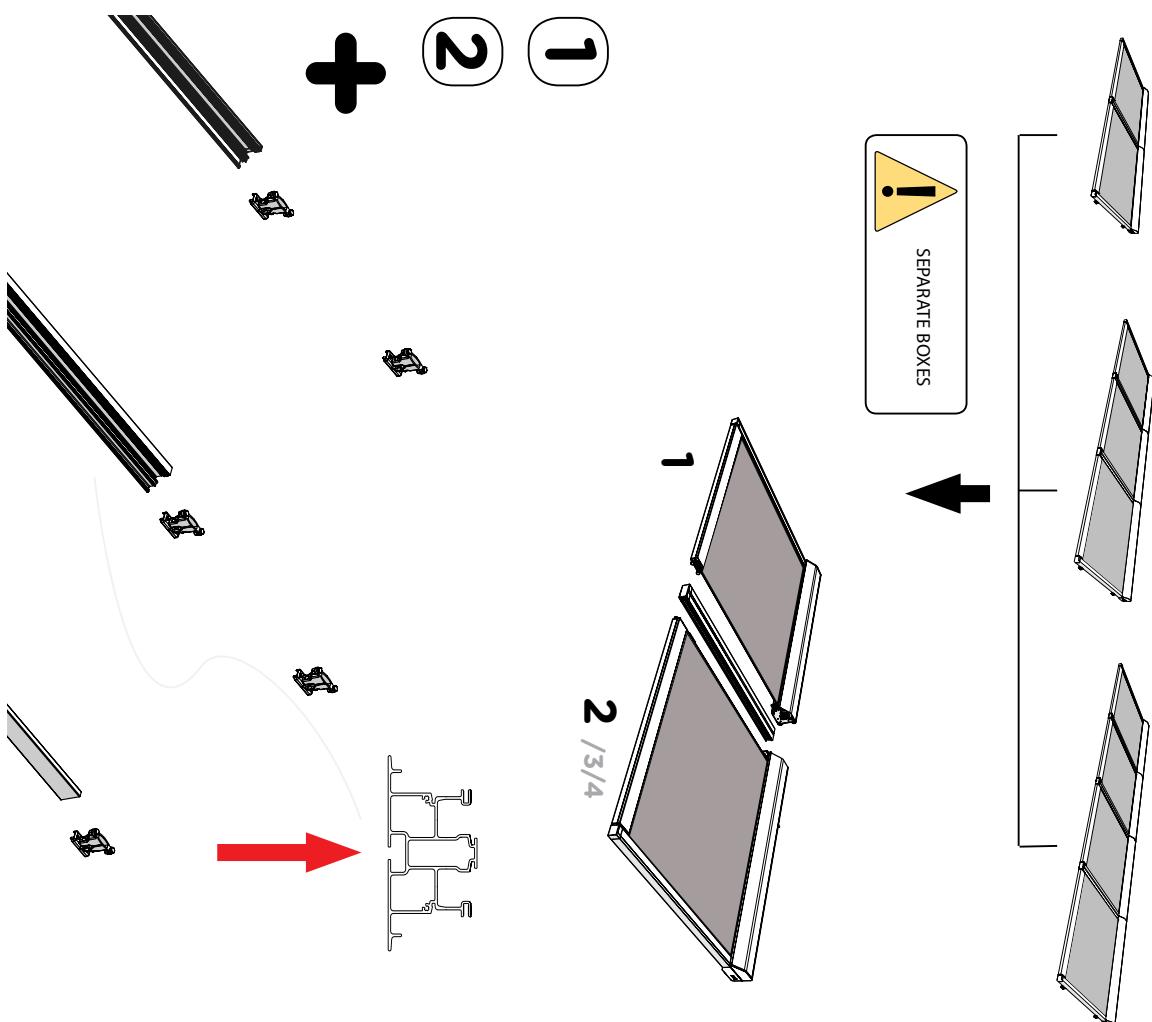


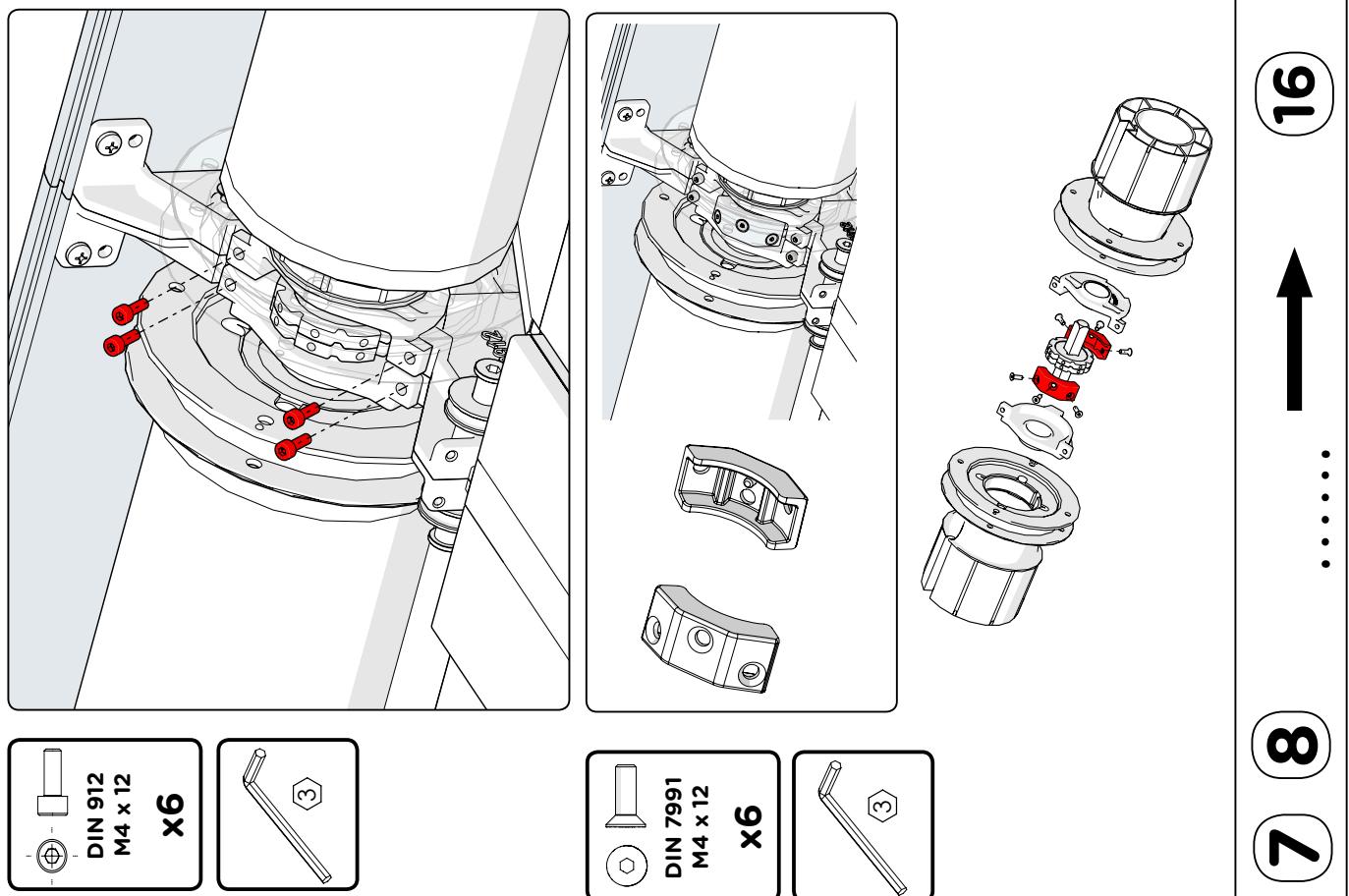
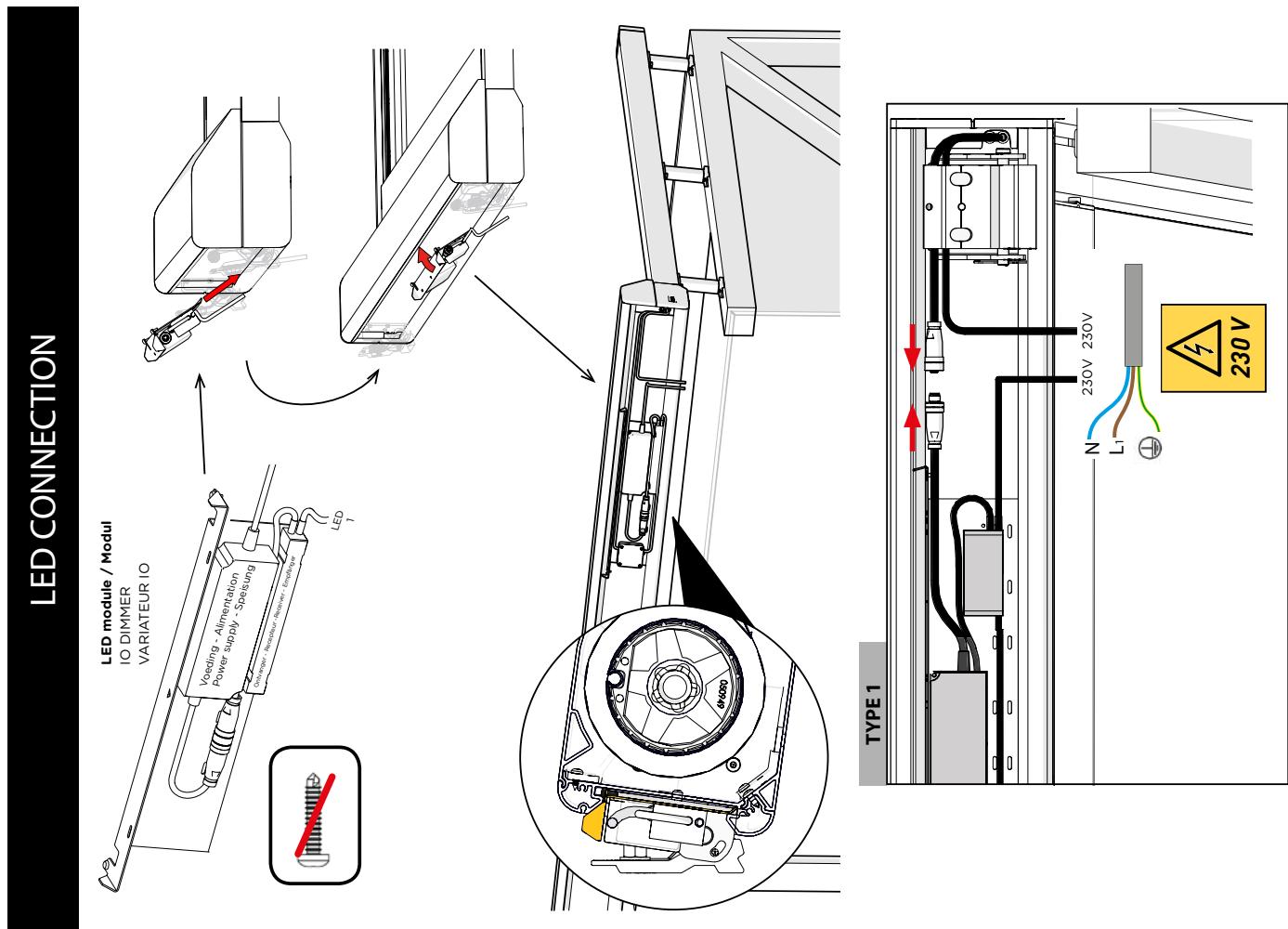
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Orea 25/17 LT50 RTS  
Orea 40/17 LT50 RTS  
Sunea 50 IO 25/17  
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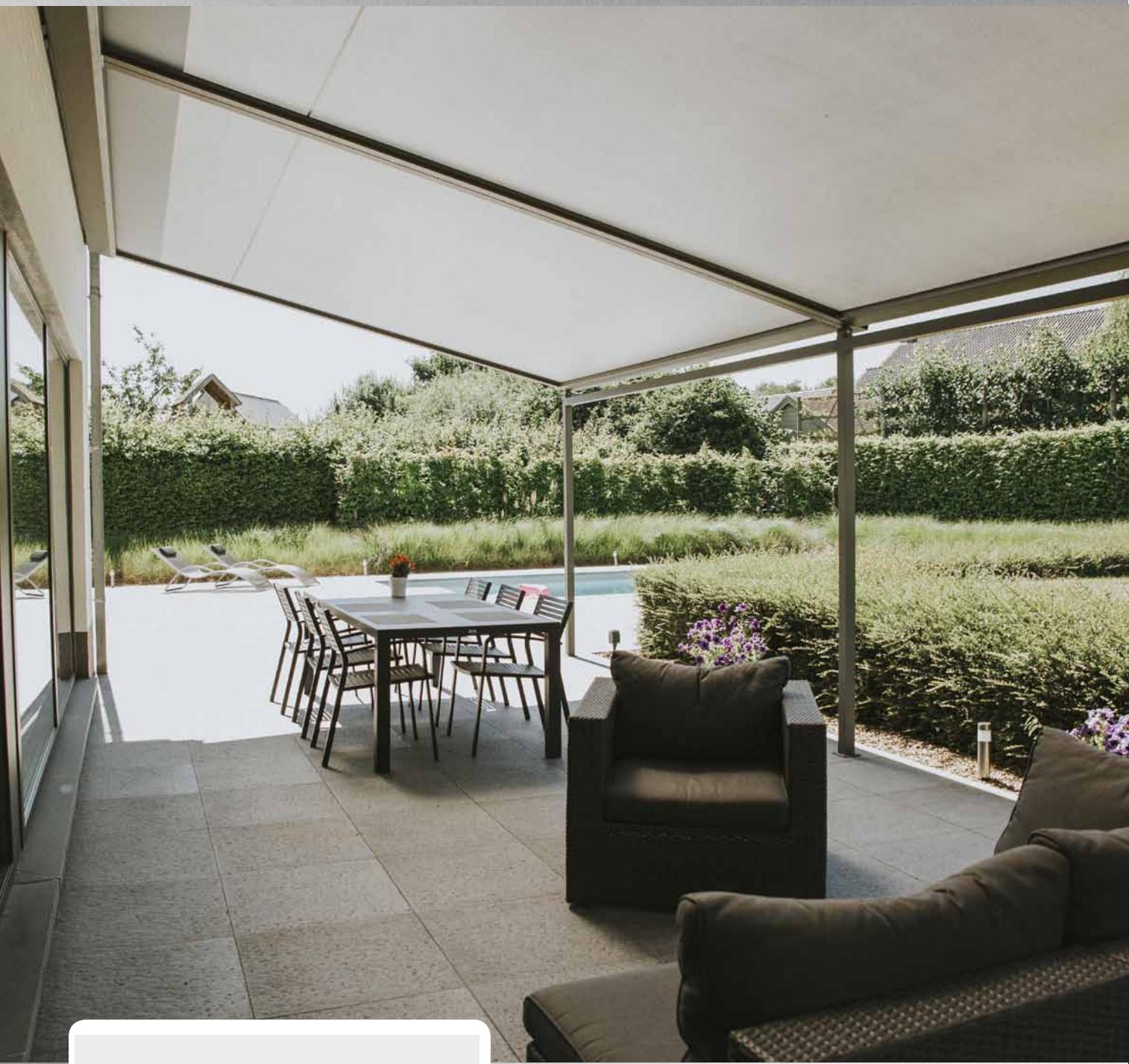
SEE SOMFY SERVICE INSTRUCTIONS (PART OF SUPPLY)







## Veranda HRV80-ZIP-2P

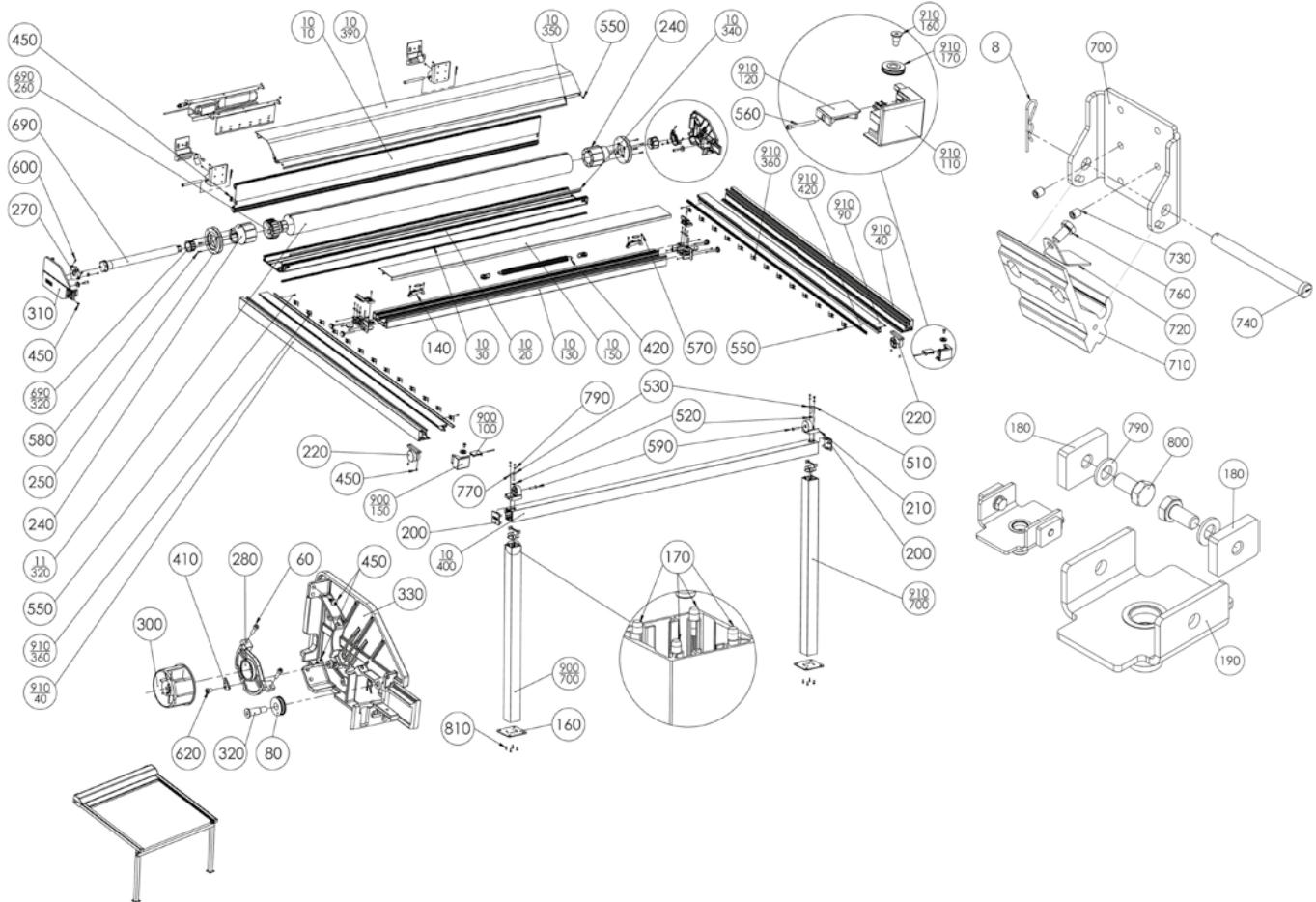


- ▲ Elegant thanks to a simple design
- ▲ Completely closed box, ensuring that the fabric colours will remain bright for many years
- ▲ Perfectly completes any terrace thanks to the flexible stand positioning
- ▲ The fabric remains taut thanks to the innovative ZIP system
- ▲ The compact box helps create a sophisticated appearance of the veranda
- ▲ Possibility to install LED lighting

**ISOTRA** Quality

## VERANDA HRV80-ZIP-2P

### Basic product specification



VERANDA HRV80-ZIP-2P 2-01532-0001

### Controls

Serves for opening and retracting the veranda. All box sizes can only be controlled by motor.

**Motor** - tubular motor 230V (50 Hz) located on the far left or far right, as necessary. The standard supply includes a 3-metre cable (optionally 5, 10m), Sunea IO motor type without push buttons, being controlled by an IO transmitter (can also be without the wall-mounted IO transmitter). Optionally, it is possible to supply the Orea WT motor with automatic readjustment, or the Orea RTS motor with built-in RTS receiver. The controls are always located when viewed from the outside.

### Specifications

|                 | Upper section   | Bottom section | Lateral guiding |          | Support profile |
|-----------------|---|----------------|-----------------|----------|-----------------|
|                 |   |                | Guide rail      |          |                 |
| Dimensions (mm) | 245 x 175   | 140 x 63       | 76,5 x 65       | 133 x 65 |                 |
| Material        | Al  | Al             | Al              | Al       |                 |
| Colour          | RAL 9010, RAL 9006, RAL 9007, RAL 8014, RAL 7016, RAL 7016S, DECORAL only up to the max. width of 4000 mm |                |                 |          |                 |

### Standard dimensions

| Version | Width (mm) |      | Height/projection (mm) | Height H2 | Guaranteed area (m <sup>2</sup> ) |
|---------|------------|------|------------------------|-----------|-----------------------------------|
|         | min.       | max. |                        |           |                                   |
| motor   | 1500       | 6000 | 5000                   | 2900      | 25                                |

**VERANDA HRV80-ZIP-2P (2-01532-0001)**

| <b>position</b> | <b>item name</b>                                       | <b>trade name - abbreviation 2</b> | <b>order number - abbreviation 1</b>            |
|-----------------|--|------------------------------------|---|
| <b>10</b>       | <b>Multi-piece sections – VERANDA</b>                  |                                    | see Multi-piece sections - VERANDA HRV80-ZIP-2P |
| 11/230          | Winding cylinder, diameter 110x1.25 mm                 | VRH 166                            | 6-015978-0000                                   |
| 80              | Reversing wheel for side board – 28x8 mm               | VRH 094                            | 6-014597-0000                                   |
| 140             | Terminal board for HI-TEC cord complete                | VRH 099                            | 6-014607-0000                                   |
| 160             | Foot 120x120   | VRH 161                            | 6-015972-0000                                   |
| 170             | Fastening pin  | VRH 162                            | 6-015973-0000                                   |
| 180             | Bolt plate   | VRH 189                            | 6-016022-0000                                   |
| 190             | Connecting bracket                                     | VRH188                             | 6-016021-0000                                   |
| 200             | Side cover Logo  | VRH 163                            | 6-015974-0000                                   |
| 210             | Suspension 65x65 part 1                                | VRH 164                            | 6-015976-0000                                   |
| 220             | Suspension 65x65 part 2                                | VRH 165                            | 6-015977-0000                                   |
| 240             | Cylinder cap, diameter 110 mm – BLACK                  | VRH 167                            | 6-015979-0000                                   |
| 250             | Cord coiler, diameter 110 mm – BLACK                   | VRH 168                            | 6-015980-0000                                   |
| 270             | Cord coiler, diameter 110 mm – BLACK                   | VRH 174                            | 6-015999-9004                                   |
| 280             | Movable holder – BLACK                                 | VRH 175                            | 6-016000-9004                                   |
| 300             | Cylinder cap, square – BLACK                           | VRH 176                            | 6-016001-9004                                   |
| 310             | Side board – LEFT                                      | VRH 177                            | 6-016002-9004                                   |
| 320             | Reversing wheel pin – 10x34 mm                         | VRH 014                            | 6-014598-0000                                   |
| 330             | Side board – RIGHT                                     | VRH 178                            | 6-016003-0000                                   |
| 370             | Lower section end piece – LEFT – BLACK                 | VRH 179                            | 6-016004-9004                                   |
| 380             | Wheel with fork for cord guiding HRV                   |                                    | 6-019123-0000                                   |
| 400             | HI-TEC cord 2.7 mm                                     | VRH 021                            | 6-014626-0000                                   |
| 410             | Bracket lock   | VRH 182                            | 6-016008-0000                                   |
| 430             | Screw 3.5x16 DIN 7982 C-H A2, countersink – cross-head | VRH 130                            | 6-014674-0000                                   |
| 440             | Screw 2.9x13 DIN 7982 C-H A2, countersink – cross-head | VRH 129                            | 6-014738-0000                                   |
| 450             | Screw 4.8x13 DIN 7982 C-H A2, countersink – cross-head | VRH 134                            | 6-014734-0000                                   |
| 460             | Allen head screw M6x30, DIN 912, A2                    |                                    | 6-010408-0000                                   |
| 500             | Screw M5x16 Zn DIN 965-Z, A2, countersink – cross-head |                                    | 6-014338-0000                                   |
| 510             | Allen head screw M4x12 A2 DIN 7991, countersink        |                                    | 6-016015-0000                                   |
| 520             | Washer M10, DIN 125-1A, A2                             |                                    | 6-014091-0000                                   |
| 530             | Hexagon-head bolt M10x35, DIN 933, A2                  |                                    | 6-016012-0000                                   |
| 550             | Allen head screw M4x25, DIN 912, A2                    |                                    | 6-016048-0000                                   |
| 570             | Screw 4.2x13 DIN 7981 CH, A2, cup-head, cross-head     | VRH 132                            | 6-014640-0000                                   |
| 580             | Bolt WN 1412 - K50x25, A2                              |                                    | 6-016013-0000                                   |
| 590             | Allen head screw M8x40 A2 DIN 7991, countersink        |                                    | 6-016014-0000                                   |
| 600             | Allen head screw M4x16, DIN 912, A2                    | VRH 102                            | 6-014736-0000                                   |
| 620             | Screw M4x6 INOX A2, DIN 7985-H, cup-head, cross-head   | VRH 105                            | 6-014737-0000                                   |
| <b>690</b>      | <b>Motors (SOMFY) VERANDA</b>                          |                                    | see Motors – VERANDA HRV80-ZIP-2P               |
| 700             | Wall bracket – part 1                                  | VRH 185                            | 6-016018-0000                                   |
| 710             | Wall bracket – part 1                                  | VRH 186                            | 6-016019-0000                                   |
| 720             | Wall bracket   | VRH 183                            | 6-016016-0000                                   |
| 730             | Set screw M8x10 A4, DIN 916                            |                                    | 6-013930-0000                                   |
| 740             | Wall bracket pin                                       |                                    | 6-016017-0000                                   |
| 760             | Flexible cotter DIN 11024                              |                                    | 6-016020-0000                                   |
| 770             | Allen head screw M5x20 A2 DIN 7991, countersink        |                                    | 6-016098-0000                                   |
| 790             | Washer M5, DIN 125-1A, A2                              |                                    | 6-002355-0000                                   |
| 800             | Screw M5x10 INOX A2, DIN 933 (hexagon)                 |                                    | 6-012977-0000                                   |
| 810             | Screw 4.8x19 DIN 7982 C-H A2, cup-head, cross-head     |                                    | 6-013928-0000                                   |
| <b>900</b>      | <b>Guiding – rail – LEFT</b>                           |                                    | see Guiding – rail – LEFT                       |
| <b>910</b>      | <b>Guiding – rail – RIGHT</b>                          |                                    | see Guiding – rail – RIGHT                      |

**Multi-part sections – VERANDA HRV80-ZIP-2P (3-03390-0085)**

| position | item name                         | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|-----------------------------------|-----------------------------|-------------------------------|
| 10/10    | Section BOX – rear                | VRH 147                     | 6-015958-0000                 |
| 10/20    | Section BOX – lower               | VRH 148                     | 6-015959-0000                 |
| 10/30    | Lower section LED – 7.0m          | VRH 149/1                   | 6-015960-0007                 |
| 10/130   | Lower section                     | VRH 158                     | 6-015969-0000                 |
| 10/150   | Lower section – cover             | VRH 159                     | 6-015970-0000                 |
| 10/340   | Profile for fabric run-on         | ZPH115-1                    | 6-013986-0000                 |
| 10/350   | Brush for upper box – BLACK       | VRH 024                     | 6-014706-9004                 |
| 10/390   | Section BOX – cover               | VRH 181                     | 6-016007-0000                 |
| 10/400   | Section Stand / Cross bar – 65x65 | VRH 160                     | 6-015971-0000                 |

**Guiding – rail HRV80-ZIP-2P – left (2-01533-PU11L)**

| position | item name                         | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|-----------------------------------|-----------------------------|-------------------------------|
| 900/100  | Guide rail cap – left             | VRH 155                     | 6-015966-0000                 |
| 900/150  | Guide rail end piece – left       | VRH 151                     | 6-015962-0000                 |
| 900/700  | Section Stand / Cross bar – 65x65 | VRH 160                     | 6-015971-0000                 |

**Guiding – rail HRV80-ZIP-2P – right (2-01533-PU11P)**

| position | item name                        | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|----------------------------------|-----------------------------|-------------------------------|
| 910/40   | Guide rail section               | VRH 150                     | 6-015961-0000                 |
| 910/90   | Guide rail section – lock        | VRH 154                     | 6-015965-0000                 |
| 910/110  | Guide rail end piece – right     | VRH 156                     | 6-015967-0000                 |
| 910/120  | Guide rail cap – right           | VRH 157                     | 6-015968-0000                 |
| 910/160  | PIN of side board dia. 10        | VRH 152                     | 6-015963-0000                 |
| 910/170  | Wheel for rope                   | VRH 153                     | 6-015964-0000                 |
| 910/360  | Spring of guide rail ZIP SC800   | ZPH147                      | 6-013992-0000                 |
| 910/420  | Guiding section SC800 for zip v3 | ZPH145                      | 6-014155-0000                 |

**Motors – VERANDA HRV80-ZIP-2P (2-00530-0008)**

| position | item name                        | trade name - abbreviation 2 | order number - abbreviation 1 |
|----------|----------------------------------|-----------------------------|-------------------------------|
| 690/310  | Carrier LT50/60 HI – dia. 110 mm | VRH 170                     | 6-015982-0000                 |
| 690/320  | Adapter – LT50 – tube dia. 61 mm | VRH 003/1                   | 6-014898-0000                 |

**Weight**

| box    |               | 2 lateral guides |               | connecting rail |               | stand design |                 |
|--------|---------------|------------------|---------------|-----------------|---------------|--------------|-----------------|
| length | weight        | length           | weight        | length          | weight        | length       | weight          |
| 1.0 m  | approx. 25 kg | 1.0 m            | approx. 5 kg  | 1.0 m           | approx. 4 kg  | 1.0 m        | /               |
| 1.5 m  | approx. 35 kg | 2.0 m            | approx. 10 kg | 2.0 m           | approx. 8 kg  | 2.0 m        | approx. 25 kg   |
| 2.0 m  | approx. 45 kg | 3.0 m            | approx. 15 kg | 3.0 m           | approx. 12 kg | 3.0 m        | approx. 37.5 kg |
| 2.5 m  | approx. 55 kg | 4.0 m            | approx. 20 kg | 4.0 m           | approx. 16 kg |              |                 |
| 3.0 m  | approx. 65 kg |                  |               |                 |               |              |                 |
| 3.5 m  | approx. 75 kg |                  |               |                 |               |              |                 |
| 4.0 m  | approx. 85 kg |                  |               |                 |               |              |                 |

Veranda HRV80-ZIP-2P, width 1.5 metres, projection 2 metres and height 2 metres weighs approx. 90 kg.

# Veranda HRV80-ZIP-2P

## Basic product specification

### Section BOX

Material: extruded aluminium.

Wall thickness: 2.5 mm.

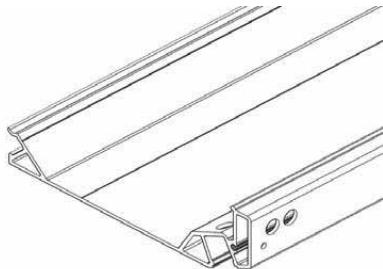
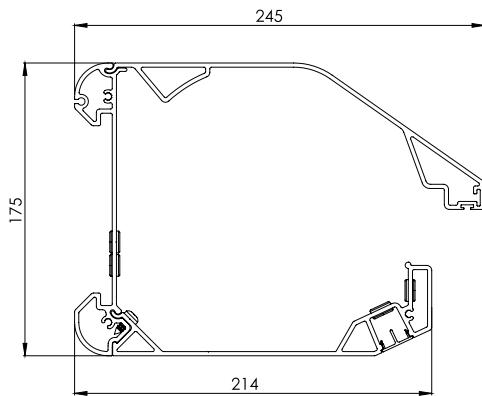
Dimensions: 245 mm x 175 mm.

Consists of two parts:

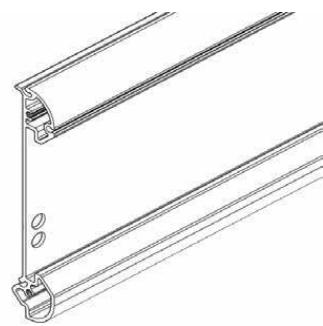
- removable tapered upper section or cover,
- fixed bottom section.

The fabric guiding section is attached to the fixed section that leads the fabric from the box.

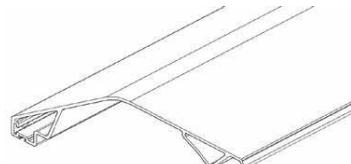
The cover includes a built-in brush.



**Bottom section up to 4 m**



**Bottom section over 4 m**



**Bottom section – cover**

### Bottom section

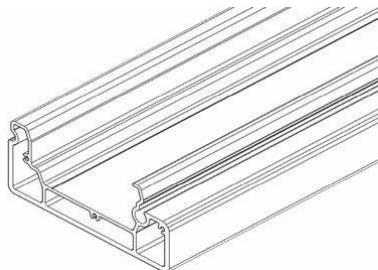
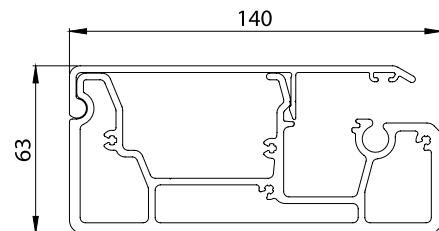
Material: extruded aluminium.

Wall thickness: basic section 4 mm.

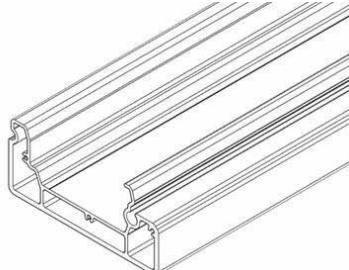
Closing section 2.5 mm.

Function:

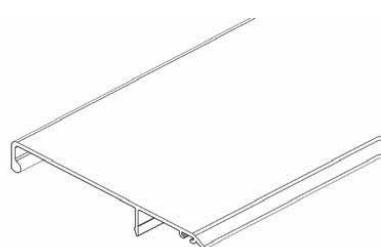
- The basic section is equipped with a groove, into which fabric can be attached.
- The closing section is fitted on the basic section.
- It moves in the lateral guide grooves on special sliding blocks.



**Bottom section up to 4 m**



**Bottom section over 4 m**



**Bottom section – cover**

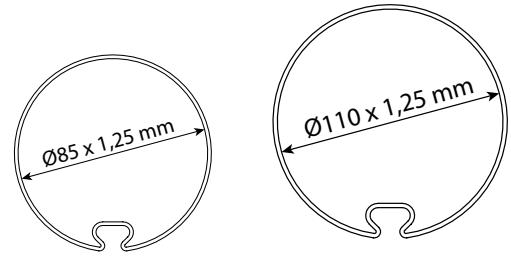
## Winding cylinder

Material: galvanised-steel tube with a groove for attaching the fabric.

Function: unwinding and winding of the fabric.

Up to the width of 4000 mm - the shaft diameter is 85 mm.

From the width of 4001 mm - the shaft diameter is 110 mm.



## Guide rails STANDARD

Material: extruded aluminium.

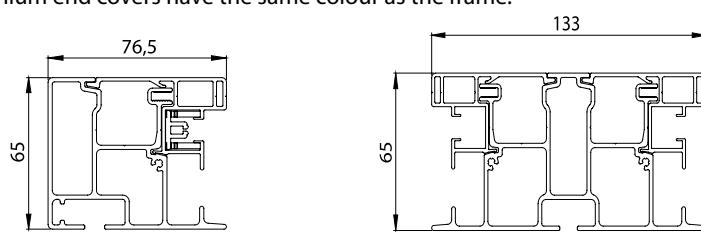
Wall thickness: 1.5 mm.

Two types:

- Lateral guides: installed on the outside, with a groove on one side only.
- Connecting rails: installed in the middle, with grooves on both sides.

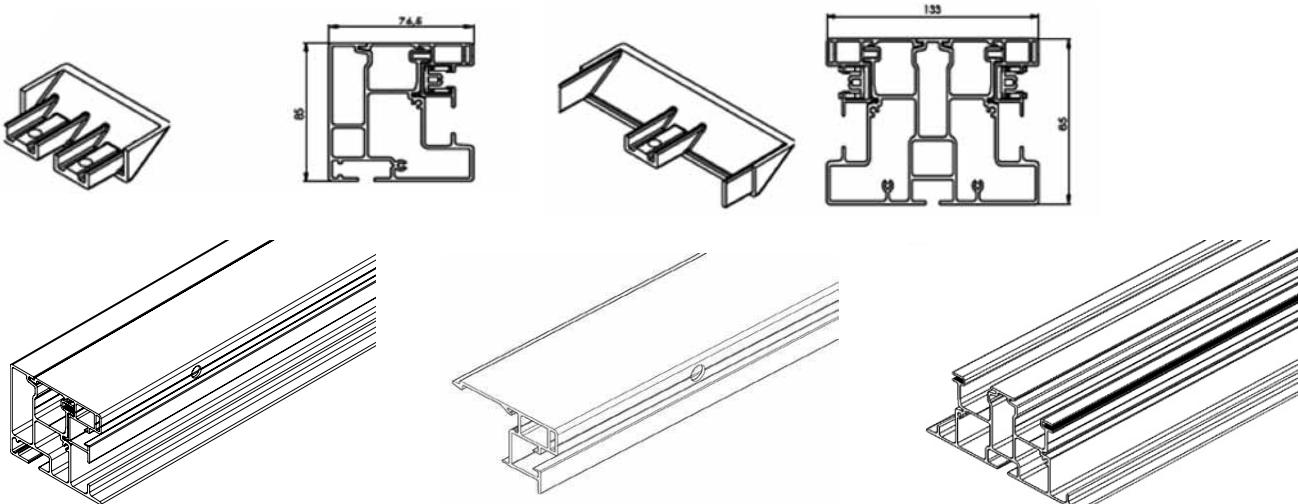
The sections have recesses, into which the lateral cover support pins fit and through which the cords are guided.

The aluminium end covers have the same colour as the frame.



## Guiding channels XL

Are standardly delivered from 4001mm height, including covers.



Guide rail section

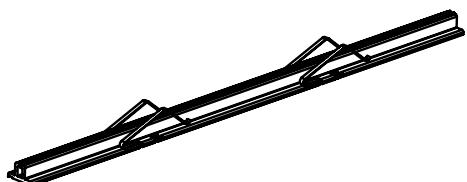
Guide rail section – closing

Guide rail section – double

## Zipper-type guide section

Material: extruded PVC clip section.

Function: Absorption of the zipper section on the fabric, making it taut using stainless springs.



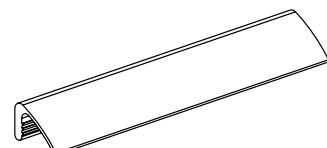
## Clip-On/Clip-Off section

Material: extruded PVC clamps.

Function: Attaching the fabric in the groove without the need to use screws, so that the fabric could be removed moving it to the front instead of pushing it sideways.

Clamp diameter: 3 mm.

Advantage: fast and easy fabric replacement.



## Stands

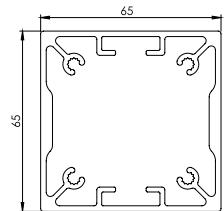
Material: extruded aluminium, powder-coated.

Wall thickness: 2 mm.

Dimensions: 65 mm x 65 mm.

Function:

- The stand is equipped with pins to be used for placing the cross bar.
- The stand with the flange is to be attached to a foot.



## Cross bar

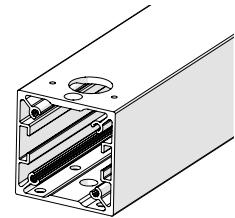
Material: extruded aluminium, powder-coated.

Wall thickness: 2 mm

Dimensions: 65 mm x 65 mm

The installation of the stands is facilitated thanks to the openings.

The bar is covered on both ends.

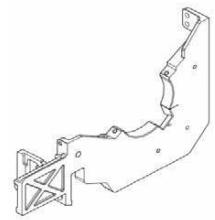
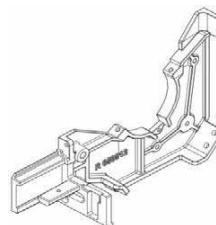
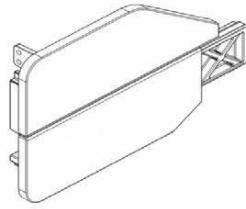
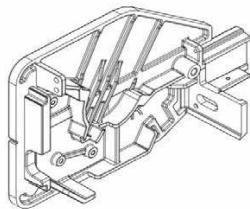


## Side board

Material: cast aluminium, powder-coated.

Colour: same as the frame colour.

There are two types of brackets: side and connecting.



**Side board LEFT / RIGHT**

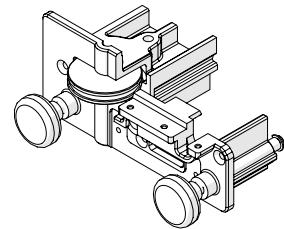
**Central side board – LEFT / RIGHT**

## Sliding blocks

Material: injection-moulded plastic

Function:

- Connecting the extension pole and guide rails, fitted with a sliding surface that meshes into the running surface of the guide rail.
- They are screwed into the left and right of the end of the bottom section.



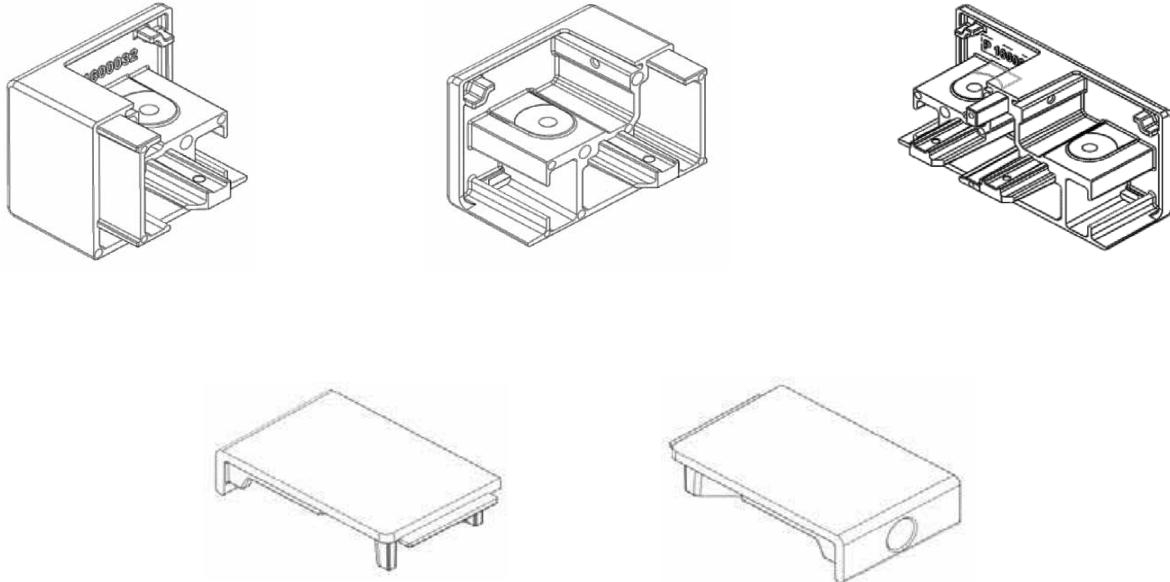
## Guide rail covers

Material: cast aluminium, powder-coated.

Colour: same as the frame colour.

Function:

- Covering the guide rails
- Guiding the cord



## Tension system

Material: castors, axles, etc. are made of non-corroding materials.

Function: The fabric and bottom section can be kept under constant tension using a spring, castors and Ø 2.7 mm cord.

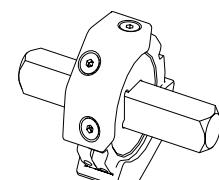
## Connecting parts

Material: Corrosion-resistant material.

Function: Pairing two parts of fabric.

Adjustable in 8 steps.

Note: It is possible that the bottom sections will not simultaneously extend and retract to the fullest, as there may be some slackness in the connection. It is therefore recommended for coupled awnings to place the motor to the widest part.



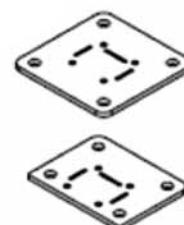
## Foot

Material: stainless steel, powder-coated.

Wall thickness: 5 mm.

Dimensions: 120 mm x 120 mm / 120mm x 92,5mm.

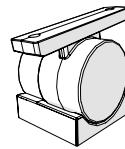
The foot can be anchored to the substrate using the provided openings.



### Articulated joints

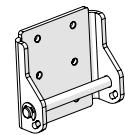
Material: aluminium, powder-coated.

Consists of two parts bolted together.



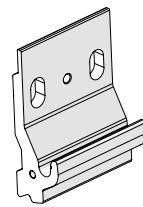
### Wall bracket part 1

Material: stainless steel with a spindle and retainer rings.



### Wall bracket part 2

Material: aluminium, powder-coated.



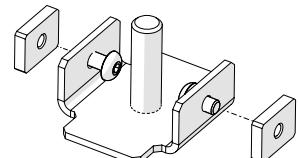
### Stand connecting bracket

Material: stainless steel with two clamps and socket head screws.



### Securing plate of the wall bracket:

- Material: stainless steel (RVS)
- Function: the box is hung on the wall bracket part 2 using the bracket part 1. Then, to the wall bracket part 2, the securing plate is attached with a M8 screw, so that the axis of the bracket part 1 cannot move upwards.

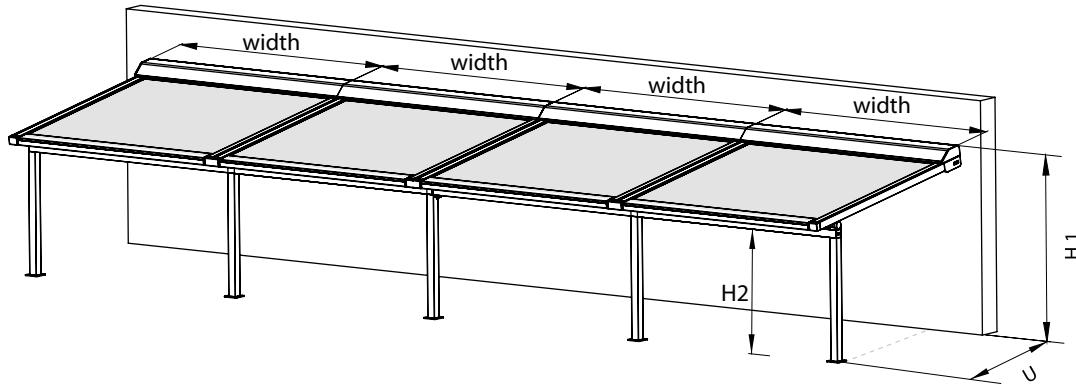


### Technical options

|                           |                   |
|---------------------------|-------------------|
| Minimum width per 1 part: | 1.5 m             |
| Maximum width per 1 part: | 6 m               |
| Maximum projection (U):   | 5 m               |
| Maximum fabric area:      | 25 m <sup>2</sup> |
| Maximum clearance (H2):   | 2.9 m             |

### Technical options – verandas coupling

| Type   | Maximum width (m) |            |     |   |   |    |    | Max. area         | Number of verandas | Number of motors |
|--------|-------------------|------------|-----|---|---|----|----|-------------------|--------------------|------------------|
|        | 1,5               | 3          | 4,5 | 6 | 8 | 12 | 14 |                   |                    |                  |
| Type 1 |                   | 1 veranda  |     |   |   |    |    | 25 m <sup>2</sup> | 1                  | 1                |
| Type 2 |                   | 2 verandas |     |   |   |    |    | 40 m <sup>2</sup> | 2                  | 1                |
| Type 2 |                   | 2 verandas |     |   |   |    |    | 50 m <sup>2</sup> | 2                  | 2                |
| Type 3 |                   | 3 verandas |     |   |   |    |    | 65 m <sup>2</sup> | 3                  | 2                |
| Type 4 |                   | 4 verandas |     |   |   |    |    | 80 m <sup>2</sup> | 4                  | 2                |



H1 – Height

H2 – Clearance

U – Projection

Note: In coupled systems, the intermediate stands are always fixed directly below the central guide rail.

## Controls

The installation is driven by a tubular motor 230 V (50 Hz) located on the far left or far right, as necessary. Control location when viewed from the outside. The standard supply includes the Sunea IO motor type without push buttons, being controlled by an IO transmitter, a 3-metre supply cable, and a wall-mounted, single-pole switch.

### Optional:

- 3-, 5- or 10-metre supply cable.
- The distance can be increased by using a connecting box.
- No switch.

#### • Motor with automatic pre-setting; the shade will always fully retract (Orea WT):

- no control push-buttons; the end positions will be set by a cable and regulating set,
- parallel connection (number acc. to the switch type),
- 3-metre supply cable,
- wall-mounted, single-pole switch.

#### • Motor with a built-in RTS receiver (Orea RTS):

- 3-metre supply cable – a 5 or a 10-metre cable can also be used,
- wall-mounted RTS transmitter – optionally without the wall-mounted RTS transmitter.

#### • Motor with a built-in IO receiver (Sunea IO):

- 3-metre supply cable – a 5 or a 10-metre cable can also be used,
- wall-mounted IO transmitter – optionally without the wall-mounted IO transmitter.

The RTS and IO motors are supplied with activated options for "back shutdown" and "reduced closing force".

### Accessories:

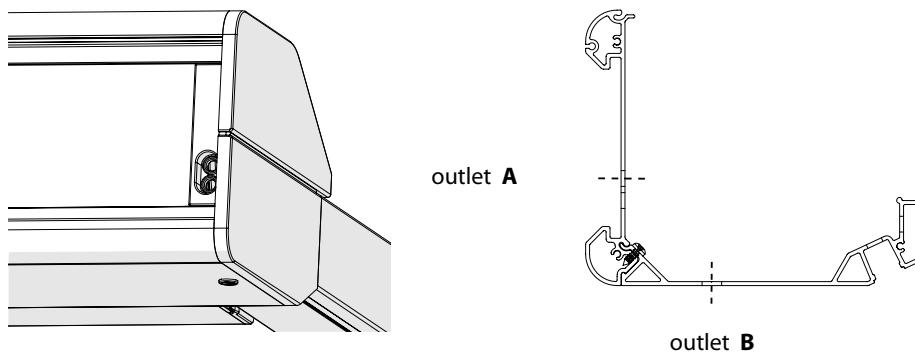
- Relay boxes,
- Controls using the wind/sun sensor,
- Time switches,
- Remote control,
- and others...

The middle positions cannot be equipped with a motor. They are always coupled with a side veranda that has a motor.

One prop in the middle can only be combined with a double centre slat.

If there are two simple slats in the middle, then there must be two props next to each other.

## VERANDA HRV80-ZIP - 1P



### 1. General information

To a great extent, the HRV80-ZIP-2P veranda screen allows regulating the sunlight penetration into a room and thus avoids unpleasant high amount of light and heat. The fabric is protected when rolled in the box which is closed by bottom section in the fully retracted position. The box is attached to a wall behind the screen using wall and fixing brackets. This system is designed to easily overcome any small tolerances of roof construction. The whole system is made from corrosion-resistant materials.

Veranda HRV80-ZIP-2P is equipped with a zipper system that ensures the fabric stays properly taut in every position of the bottom section and avoids fabric slipping out from the guide rails. The individual parts of the fabric are always fitted with a zipper on both the left and right side, while the thicker part locks with the plastic zipper section inserted in an aluminium guide rail.

The HRV80-ZIP-2P system consists of the following parts:

- Box with an easily removable, motor-driven winding cylinder,
- Fabric with a zipper, wound in the box,
- Guide rails for easy connection of the zipper section,
- Bottom section with a spring and cords that keep the fabric taut, plus water draining,
- Stands on which the sections rest,
- Frontal cross bar that ensures horizontal connection of the stands,
- Zipper guiding and tightening system.

### Motor controls

#### Types of motors (SOMFY) for Veranda

| item name               | trade name - abbreviation 2 | order number - abbreviation 1 |
|-------------------------|-----------------------------|-------------------------------|
| Motor OREA 50 WT 40/17  | MR 096/40                   | 6-001550-0040                 |
| Motor OREA 60 WT 55/17  | MR 096/55                   | 6-001550-0055                 |
| Motor OREA 60 WT 70/17  | MR 096/70                   | 6-001550-0070                 |
| Motor OREA 60 WT 85/17  | MR 096/85                   | 6-001550-0085                 |
| Motor OREA 50 RTS 40/17 | MR 092/40                   | 6-011171-0040                 |
| Motor OREA 60 RTS 55/17 | MR 092/55                   | 6-011171-0055                 |
| Motor OREA 60 RTS 70/17 | MR 092/70                   | 6-011171-0070                 |
| Motor OREA 60 RTS 85/17 | MR 092/85                   | 6-011171-0085                 |
| Motor Sunea 50 io 40/17 | MR 134/40                   | 6-012559-4017                 |
| Motor Sunea 60 io 55/17 | MR 134/55                   | 6-012559-5517                 |
| Motor Sunea 60 io 70/17 | MR 134/70                   | 6-012559-7017                 |
| Motor Sunea 60 io 85/17 | MR 134/85                   | 6-012559-8517                 |

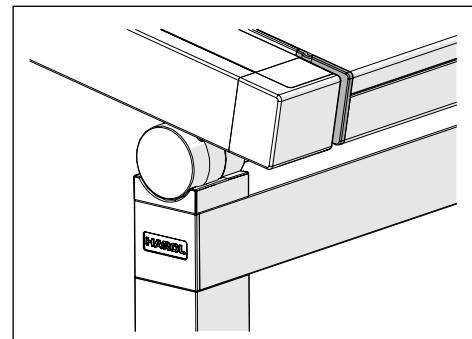
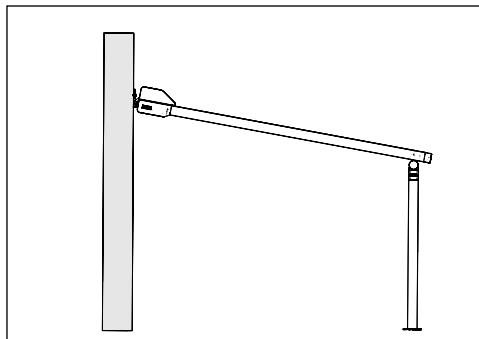
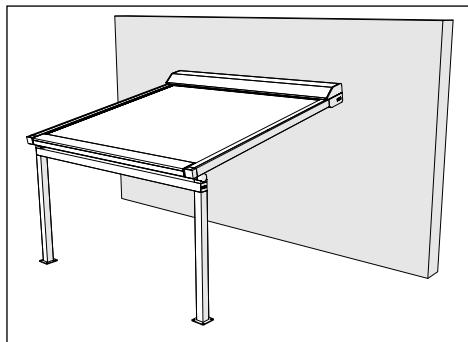
### Types of motors (BECKER) for Veranda HRV80-ZIP-2P

| item name                     | trade name - abbreviation 2 | order number - abbreviation 1 |
|-------------------------------|-----------------------------|-------------------------------|
| Motor BECKER 50 E 40/17       | 17BE                        | 6-017852-0040                 |
| Motor BECKER 60 E 60/17       | 17BE                        | 6-017852-0060                 |
| Motor BECKER 50 E 40/17       | BC40                        | 6-017852-0040                 |
| Motor BECKER 60 E 60/17       | BE60                        | 6-017852-0060                 |
| Motor BECKER 60 E 70/17       | BE70                        | 6-017852-0070                 |
| Motor BECKER 60 E 120/11      | BE120                       | 6-017852-0120                 |
| Motor BECKER 50 C 40/17       | 16BC                        | 6-017853-0040                 |
| Motor BECKER 60 C 60/17       | 16BC                        | 6-017853-0060                 |
| Motor BECKER 50 C 40/17       | BC40                        | 6-017853-0040                 |
| Motor BECKER 60 C 60/17       | BC60                        | 6-017853-0060                 |
| Motor BECKER 60 C 70/17       | BC70                        | 6-017853-0070                 |
| Motor BECKER 60 C 120/11 PLUS | BC120                       | 6-018886-0120                 |

Note: E=electronic motor, C=radio motor

## 2. Installation options

This type of sun screen can only be installed to a wall. The rear side of the box is equipped with supporting brackets that allow attaching the box to already installed brackets. Following the box installation, the stands (with the cross bar) are to be placed to the front part and connected to the sun screen using articulated joints. The stands are anchored in or on the substrate. If water-proof fabric is used and the minimum angle is observed, water will drain over the front rail.



### 3. Installation

Note: Ensure perpendicularity of installation at all times, otherwise fabric wrinkling will occur. The maximum overhang is 1000 mm. Make sure the box and the bottom profile can always be opened and that the mechanical parts inside are accessible at all times. Should you fail to follow this rule, ISOTRA cannot be held responsible for the cost of demolition work!

#### 3.1 Wall bracket (standard)

For wall mounting.

Width: 90 mm, with two oval M12 openings.

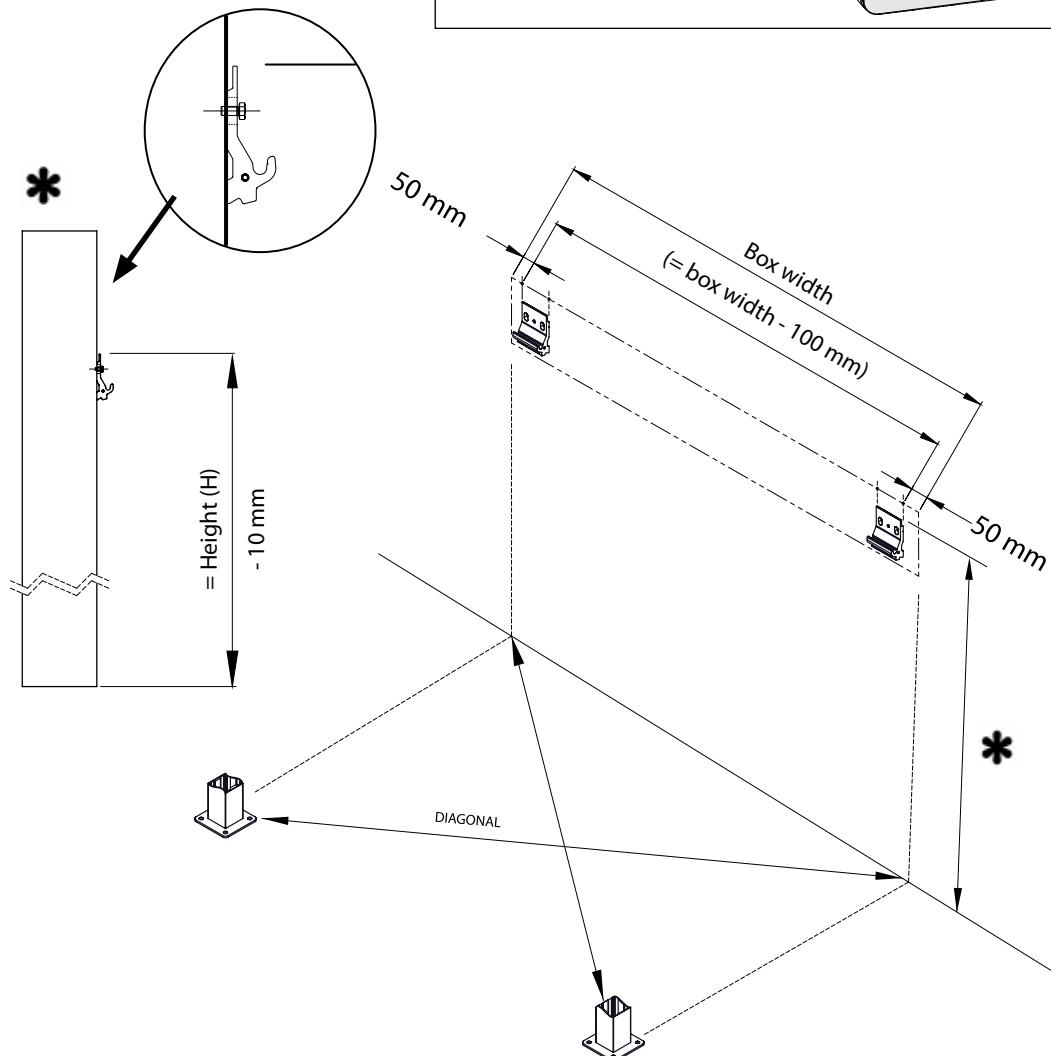
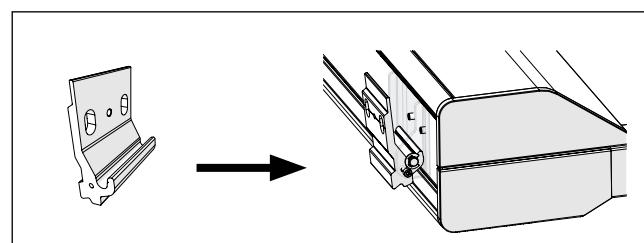
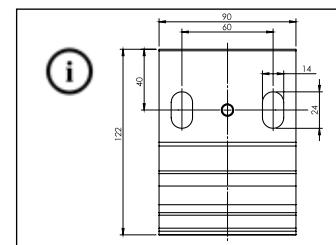
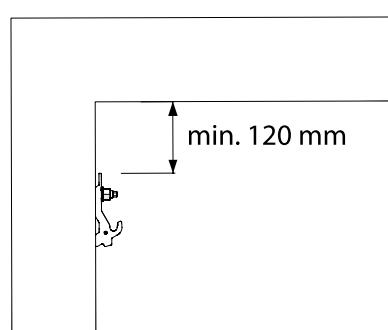
The front side features a hook that supports the spindle (wall bracket, part 2).

The number of wall brackets supplied always depends on the type of sun screen.

Two brackets per one part of the box are supplied.

Fasteners must always be selected depending on the type of wall material.

Must be ordered independently: Additional wall bracket on the box. Another wall bracket between the box and the wall can be supplied for greater box widths.



#### 4. Measuring

Guidelines for correct measuring

Ensure the system is perfectly parallel and squared. An accurate measurement ensures a quicker and easier assembly.

Ensure exact levelling of the system.

Ensure that the foundation is sufficiently solid to install the foot supports.

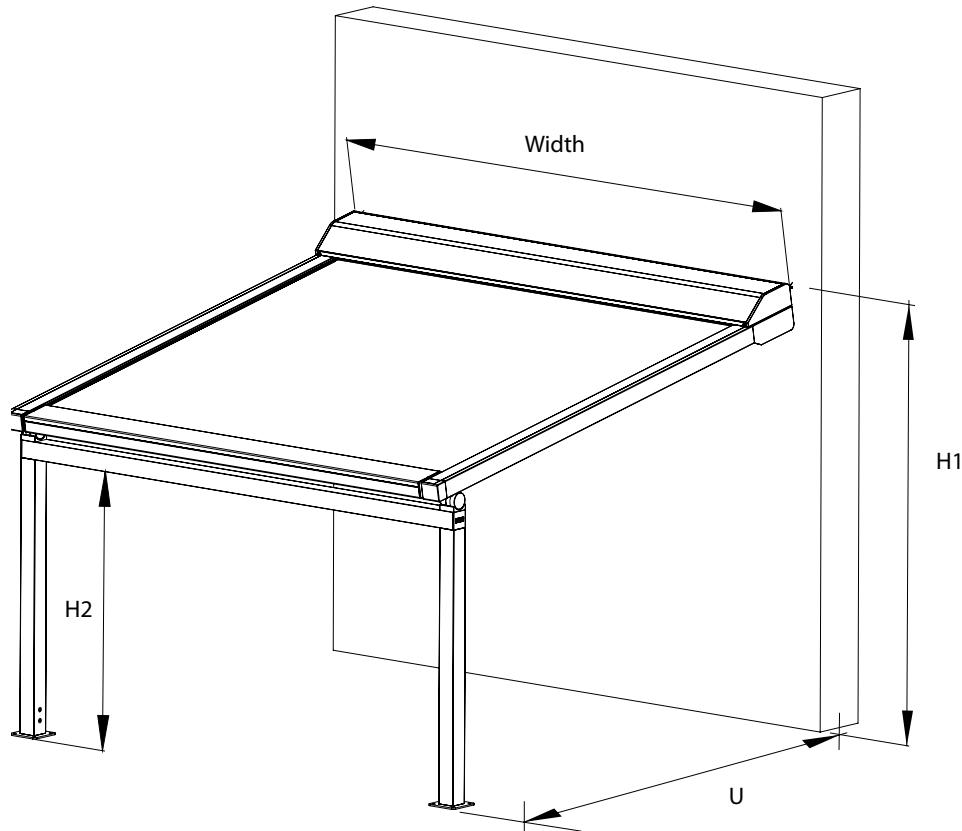
Be careful with relatively weak walls: the standard fixings are not part of the supply. Seek advice from your supplier of connecting material.

Overall width = from the outer part of the left bracket to the outer part of the right bracket. The stand structure has the same width as the box.

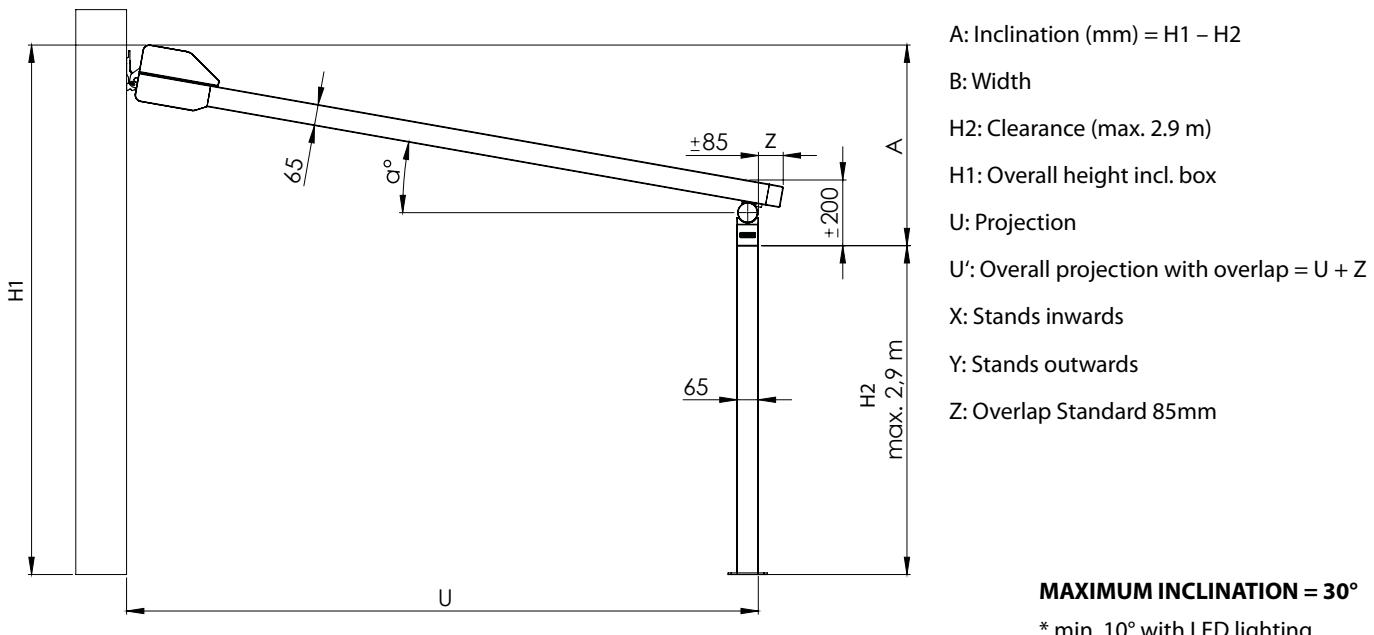
Projection (U): depth measured horizontally from the wall to the front side of the vertical stand.

The final position of the bottom section can be set flush with the end of the guide rail cover.

Clearance (H2) = height in the front part between the stands, measured from the floor (zero level) to the lower part of the horizontal cross bar.



Note: In the standard version, the stand structure has the same width as the veranda.

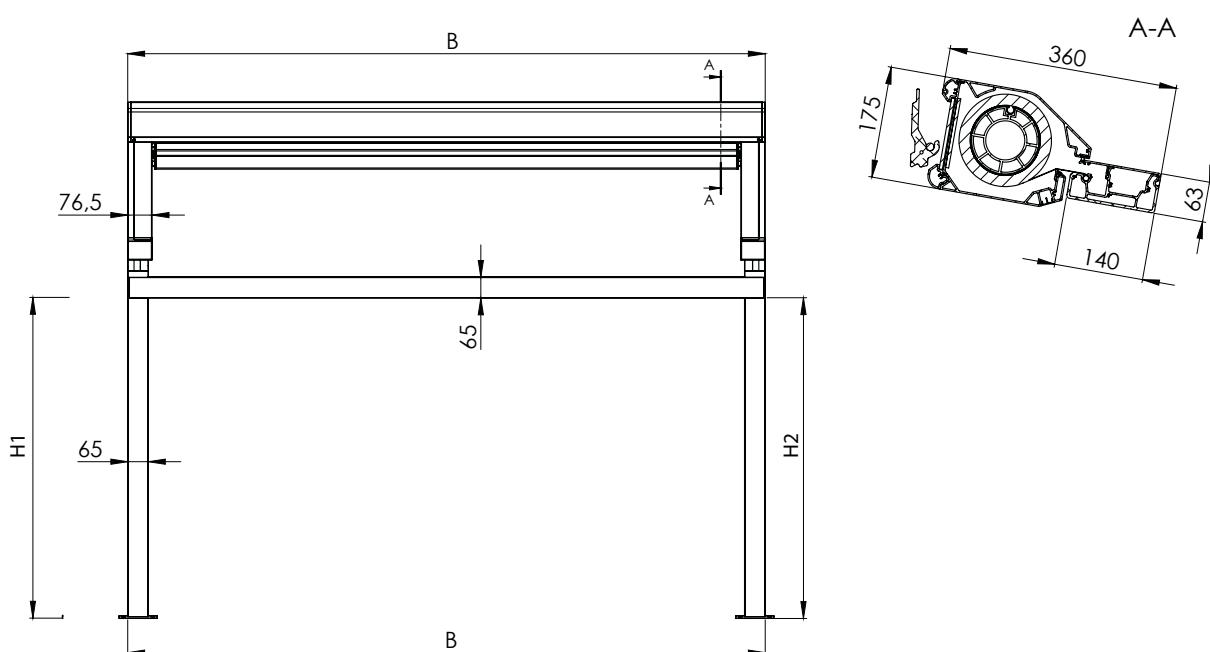


#### INCLINATION (A) in MM

|                | Inclination angle (α) | 8°  | 10°  | 14°  | Minimal angle of inclination   |
|----------------|-----------------------|-----|------|------|--|
| projection (U) | 1500                  | 490 | 535  | 645  | Soltis 86 / Soltis 92  |
|                | 2000                  | 560 | 620  | 770  | without LED lighting 80  |
|                | 2500                  | 630 | 705  | 895  | with LED lighting 10   |
|                | 3000                  | 700 | 802  | 1020 | Fabric Infinity:<br>The minimum gradient of slope for Infinity fabric is 14° |
|                | 3500                  | 770 | 890  | 1145 | The veranda with extension ≥ 3200 mm is covered with horizontal stitching.   |
|                | 4000                  | 840 | 978  | 1270 |  |
|                | 4500                  | 910 | 1065 | 1395 |  |
|                | 5000                  | 980 | 1155 | 1520 |  |

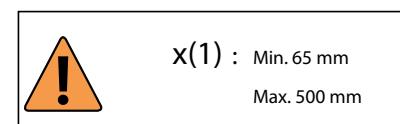
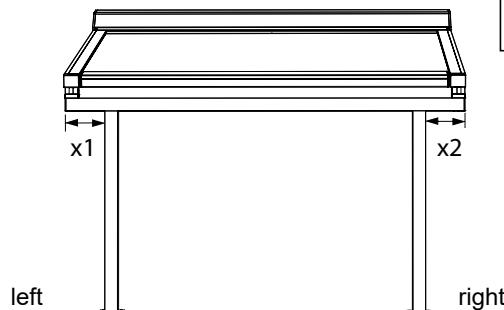
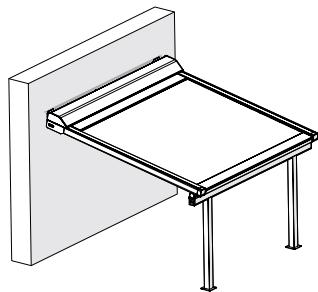
**CAUTION. CHECK WHETHER THE STRUCTURE INCLINATION IS GREATER THAN OR EQUAL TO THE VALUE SPECIFIED IN THE ABOVE TABLE IN ORDER TO ENSURE GOOD WATER DRAINING ON THE FRONT SIDE.**

If the system inclination (A) is insufficient for good water draining, ISOTRA only guarantees the product function as sun screen; in this case, complaint cannot be filed against the company in case of a breakdown or damage caused by poor water draining.

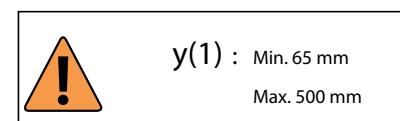
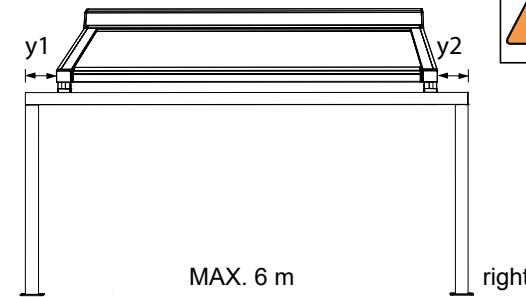
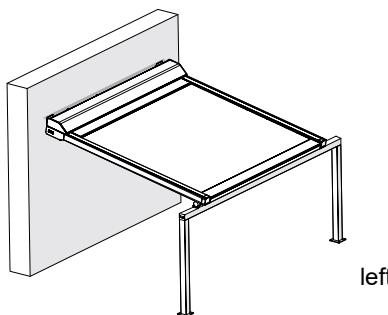


## OPTIONS

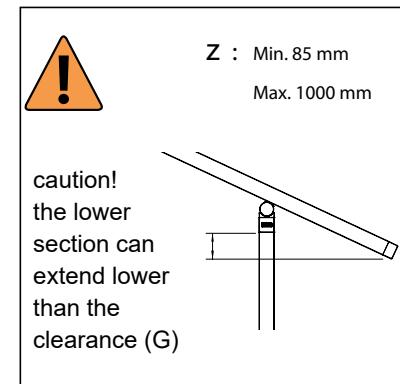
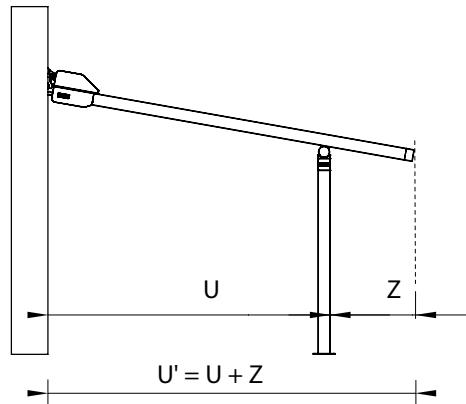
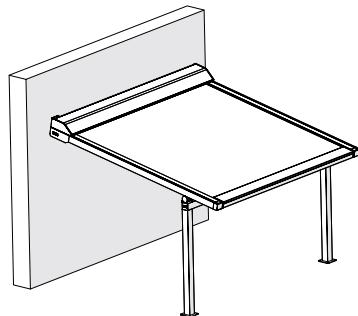
### OPTION 1 stands inwards



### OPTION 2 stands outwards



### OPTION 3 overhang



$U' = \text{MAX. } 5 \text{ m}$

Make sure it is possible to open the box and lower section at all times to provide access to the mechanical parts inside. If this rule is not followed, ISOTRA cannot be held responsible for the cost of demolition work!

## OPTIONS

### Wall insert

If necessary, it is possible to place a wall insert to the gap between the box and the wall to create a water-tight seal. Aluminium sections are placed on each side and complemented with cover sheets. A rubber band is inserted to the section where it touches the box.

- tilting: can be easily removed to access the box
- has the same colour as the rest of the structure



### Wall insert – wall section, part 1

Material: extruded aluminium, powder-coated

wall section, part 1

Wall thickness: 2 mm

### Wall insert – wall section, part 2

Material: extruded aluminium, powder-coated



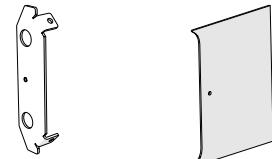
Wall thickness: 2 mm

wall section, part 2

With rubber band

### Wall cover

Material: aluminium, powder-coated

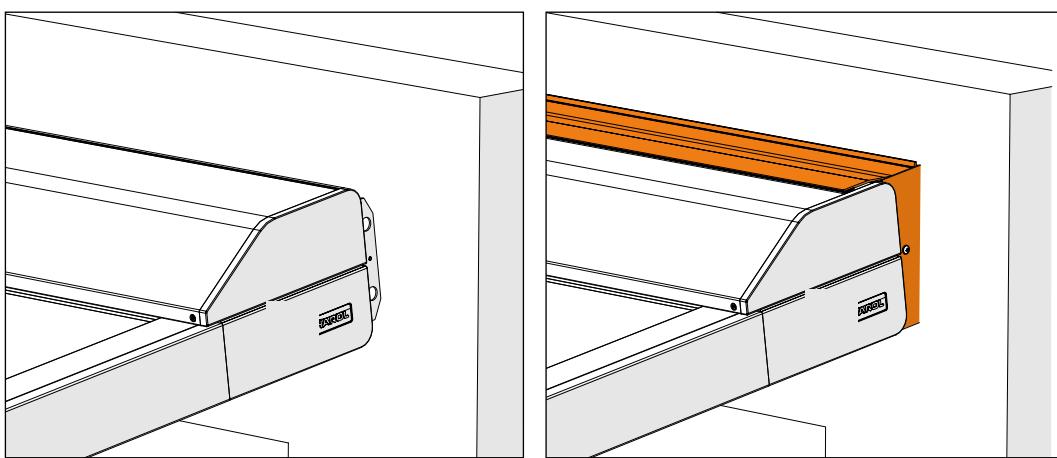


Side wall cover

Wall cover

### Side wall cover

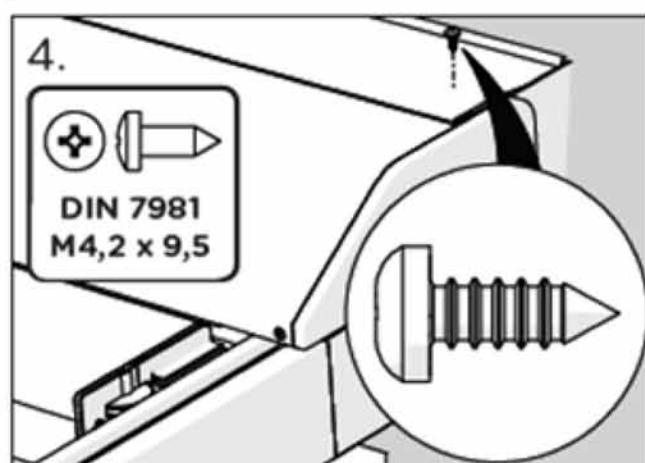
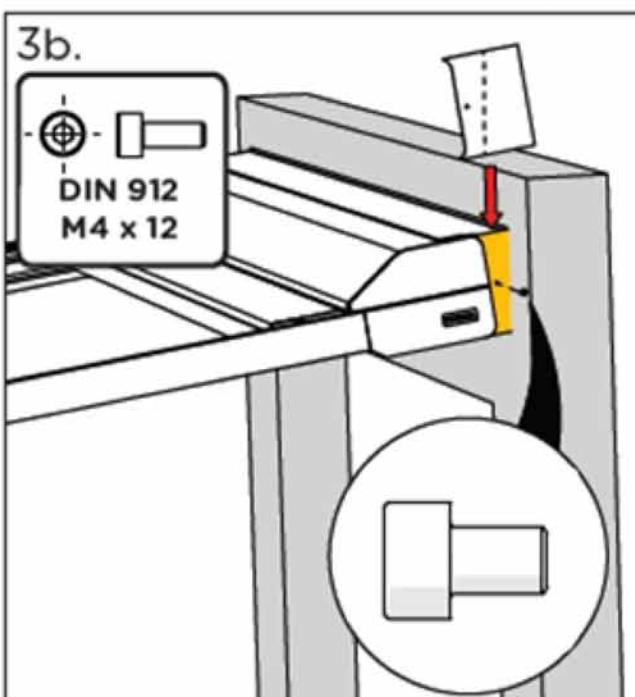
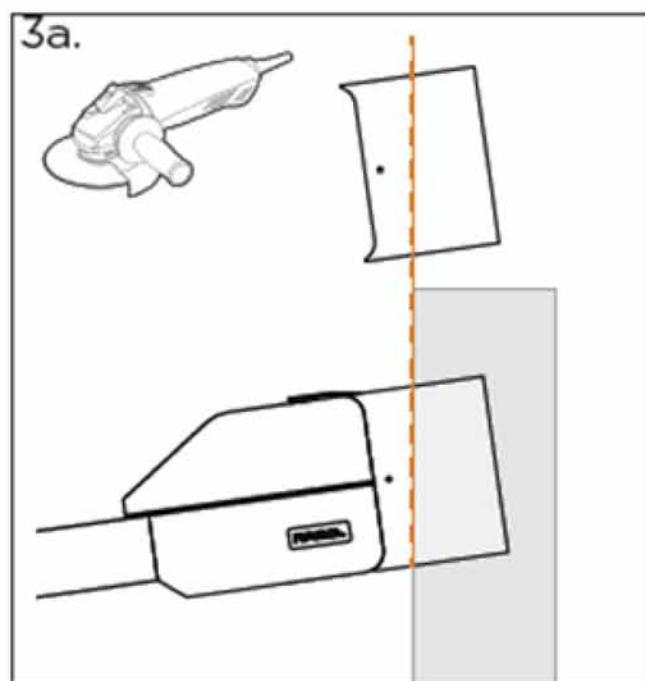
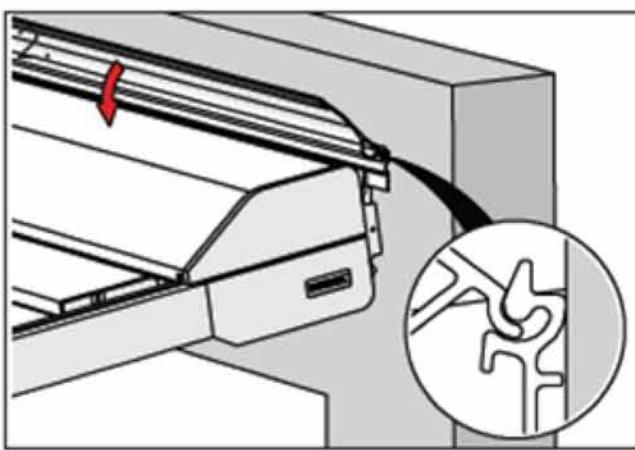
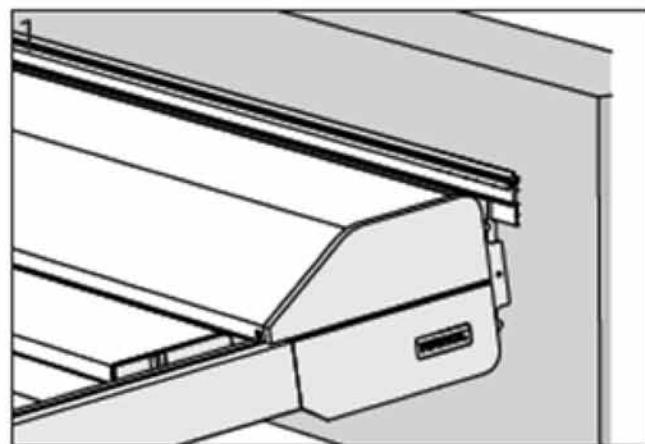
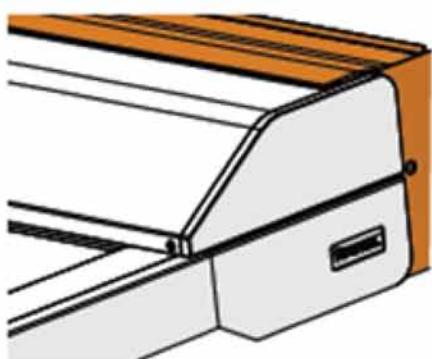
Material: stainless steel



Standard

Wall cover

\* If attached to the wall: must be packed

**Installation of side cover**

## **5. Design**

The fabric has zippers on the sides, and if the guide rails are properly installed, these zippers ensure the fabric remains taut in any position of the bottom section thanks to the strain between the zipper and the guide rails.

Cracking may be heard when retracting the screen, which is caused by the fabric tension and by pushing the air from under the fabric when winding up. Creases may also form on the zipper side, caused by different material thicknesses and expansion factors.

In blackout blinds, the zippers are placed on the Soltis side of the fabric, not on the side with the blackout film, in order to attain better adhesion and reduced fabric movement. It is therefore possible that due to wind or if seen at an angle, a small part of the zipper can be seen, but this is insignificant when compared with the overall view or the fabric tension (reduced creasing).

When the 86/92 fabric is used, the zippers are always on the rear side of the fabric – i.e. on the window side. In addition to placing an inscription or a logo to the fabric, it is also possible to inverse the fabric colour or the fabric side on the sun screen.

## **6. Fixtures and fittings**

All fixtures and fitting are made from stainless steel, and all accessories are always part of the supply.

Fixtures and fittings for the walls and anchoring to the ground are not part of the supply.

## **7. Packing**

The Veranda HRV80-ZIP-2P is supplied packed in robust cardboard boxes.

## **8. Use and maintenance**

Proper use and maintenance greatly increases the lifetime of the sun screen.

- Do not use the screen as protection against rain or wind. If water-proof fabric is used, water will drain to lateral sides of the lower section. There is no water outlet (gutter) under the rails.
- Regular maintenance prevents excessive wear and operational problems.
- Cleaning the frame: use soft water instead of aggressive substances that may affect the coating and protective layers.
- Cleaning the fabric: when dry, with a semi-stiff brush.
- Clean stubborn stains using warm water and light detergent solution, rinse with copious amounts of clean water.
- Always let the fabric dry fully before rolling it up (even after an unexpected rain shower).
- It is recommended to offer a maintenance contract for the product to the end user.
- Does not provide 100% rain protection (rain water may penetrate between the wall and the box).

## **9. Safety**

To ensure safety of the end user, the veranda must be installed in strict accordance with the installation instructions.

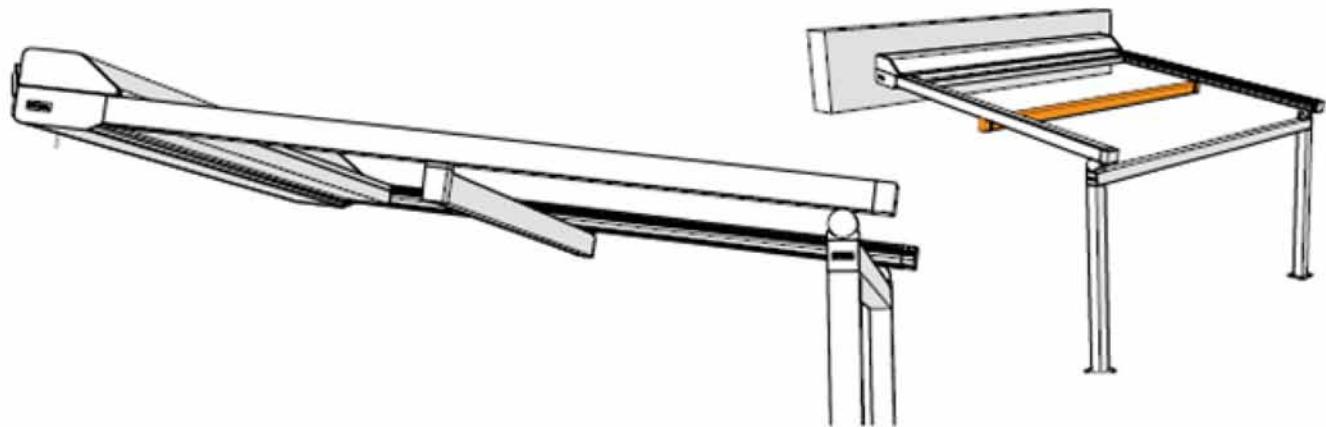
## **10. LED lighting**

Optional:

- Remove the aluminium clip section from the lower front side of the box.
- Attach the LED strip to the resulting opening and overlap the opening with a small diffuser section.
- Power supply: 230 VAC / 24 VDC.
- Each part of the box is to be equipped with the LED strip and diffuser, all with own external power supply, and placed outside the box. IO or RTS or switch (switch is not part of the supply).
- The LED strip is always to be installed across the sun screen width. Less light may be experienced at the ends, depending on the LED strip length.
- The LED strip is powered by 24 VDC supply unit, 9.6 W/m.
- LED unit can only be used as supplementary lighting. The LED light colour is warm white.

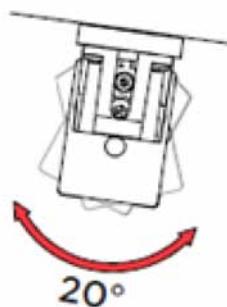
## Support profile

The support profile is always installed in a fixed position, in the centre of the guide rails.



## LED lighting can be installed in the support profile

- The profile can be adjusted in the range of 20° in both directions
- One support profile is supplied as standard



## ATTENTION

**VERANDA HRV80-ZIP – the support profile is supplied automatically for extensions over 4 m.**

**VERANDA HRV80-ZIP pp – the support profile is always supplied.**

**Control:**

1. Dimmable IO control:

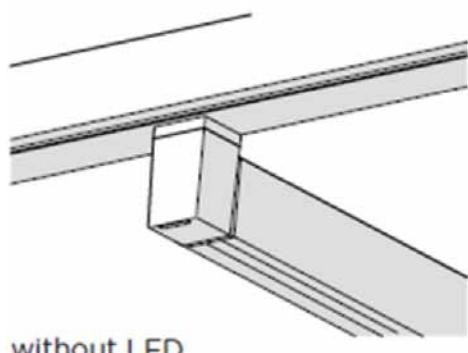
LED lighting can be controlled by all IO controllers

2. RTS control:

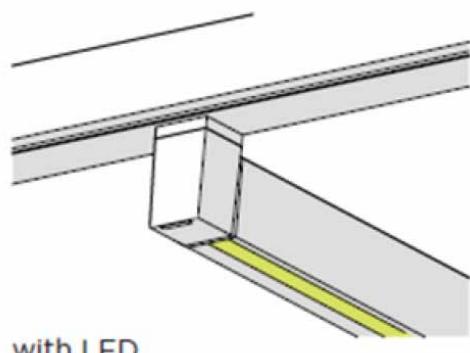
The lighting can be controlled by all RTS controllers

3. With no control:

The included power cable can be connected to a switch (switch is not included)



without LED

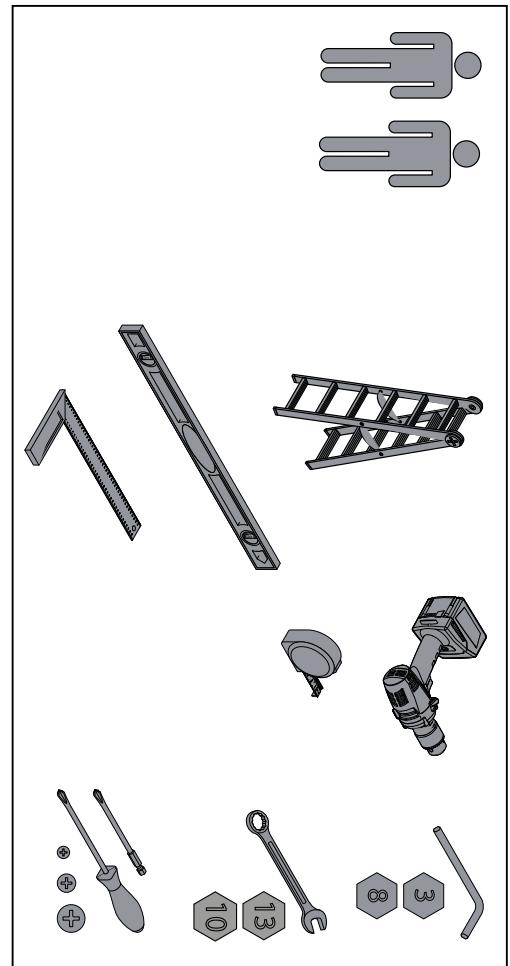
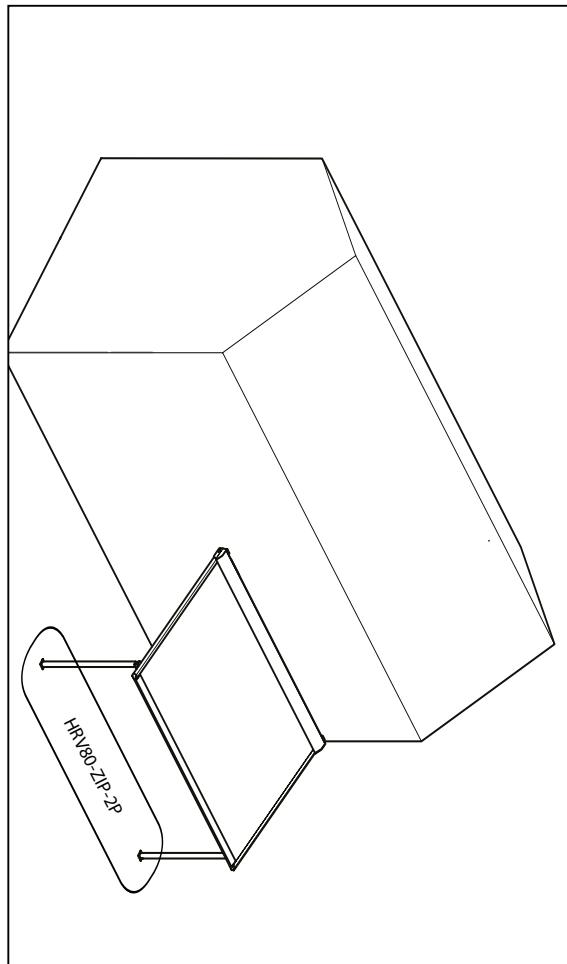


with LED

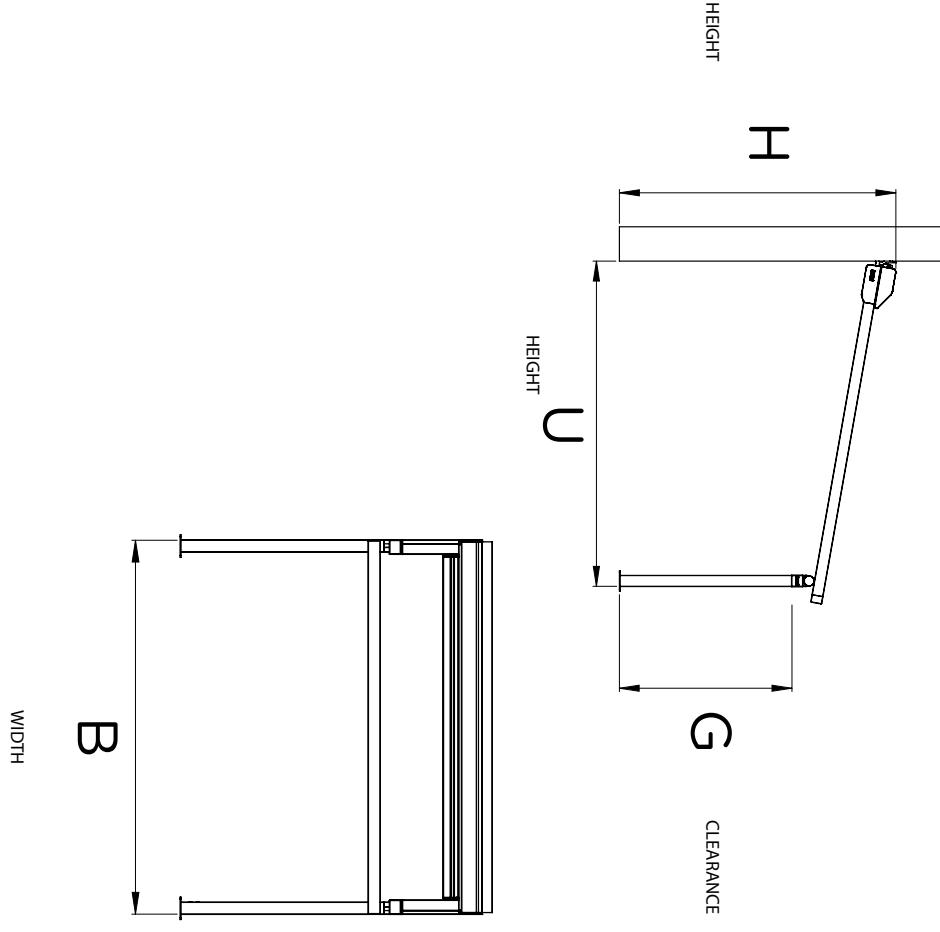


INTERMEDIATE STEPS

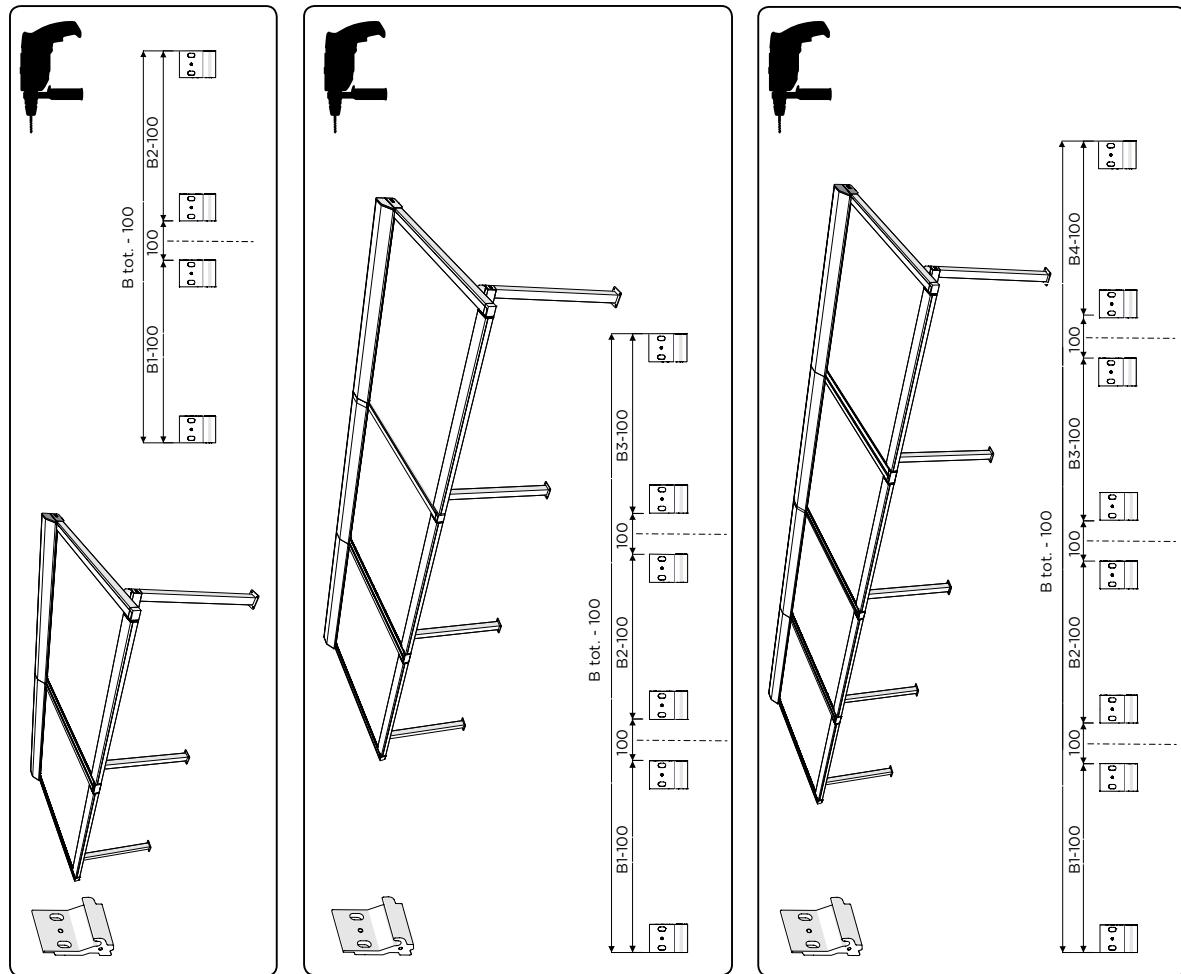
ASSEMBLY STEPS



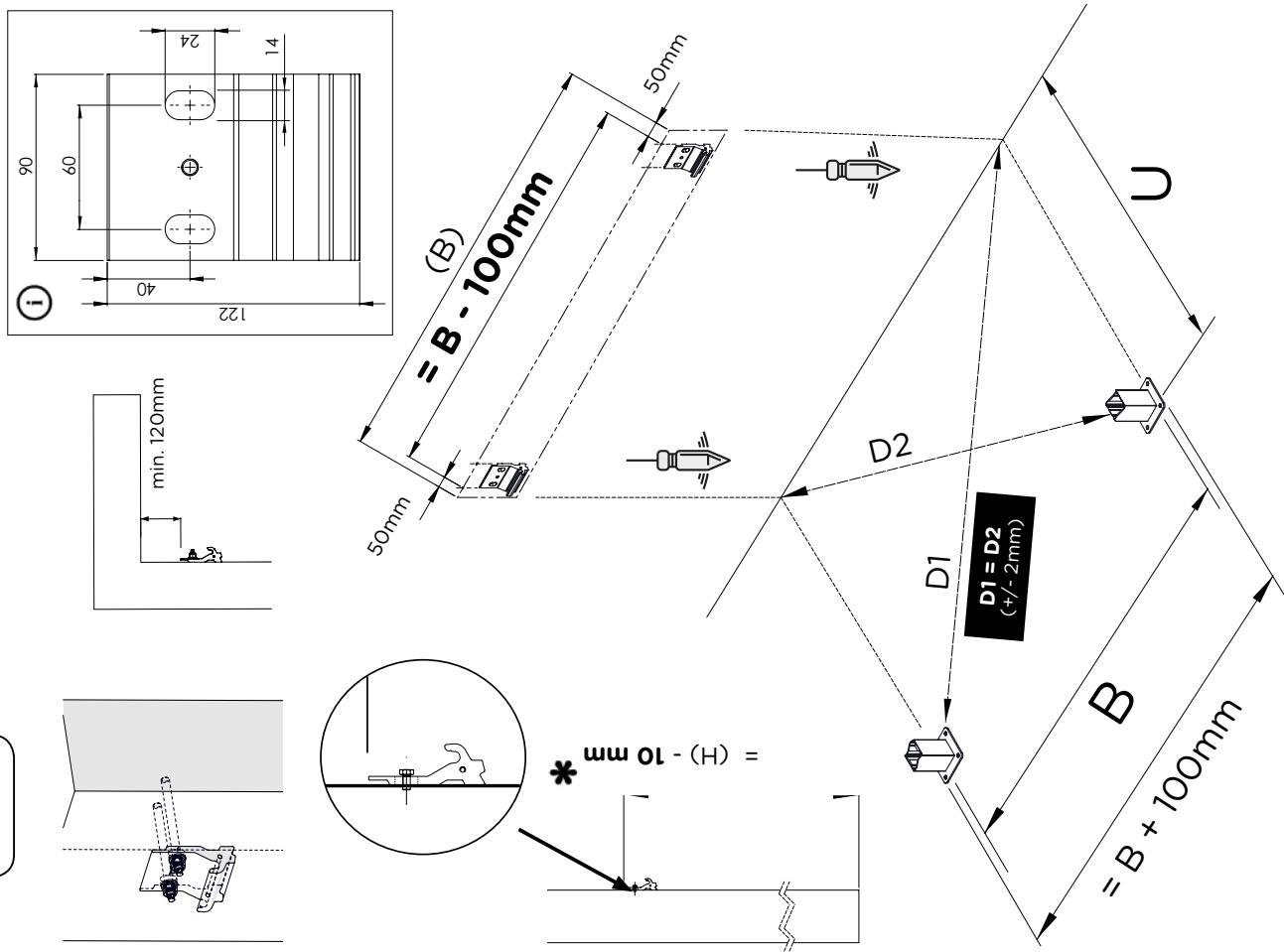
VERANDA HRV80-ZIP-2P

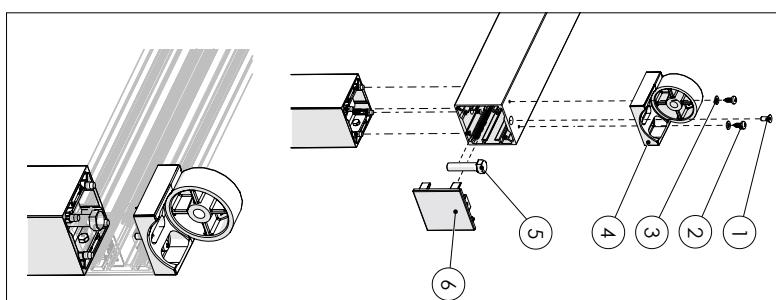
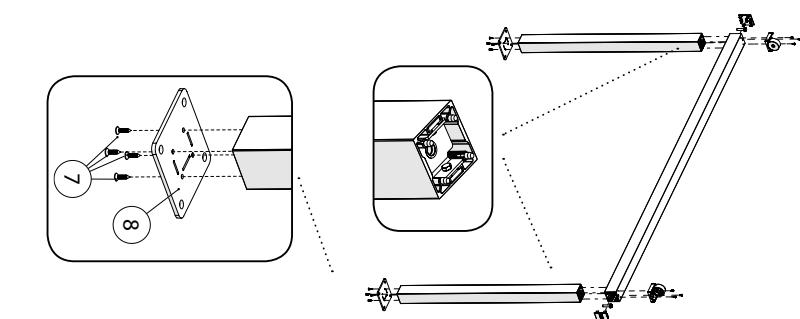
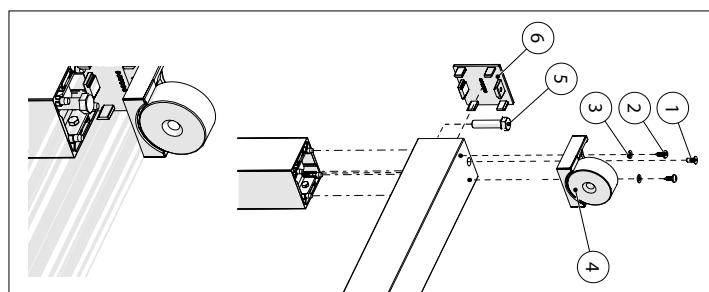
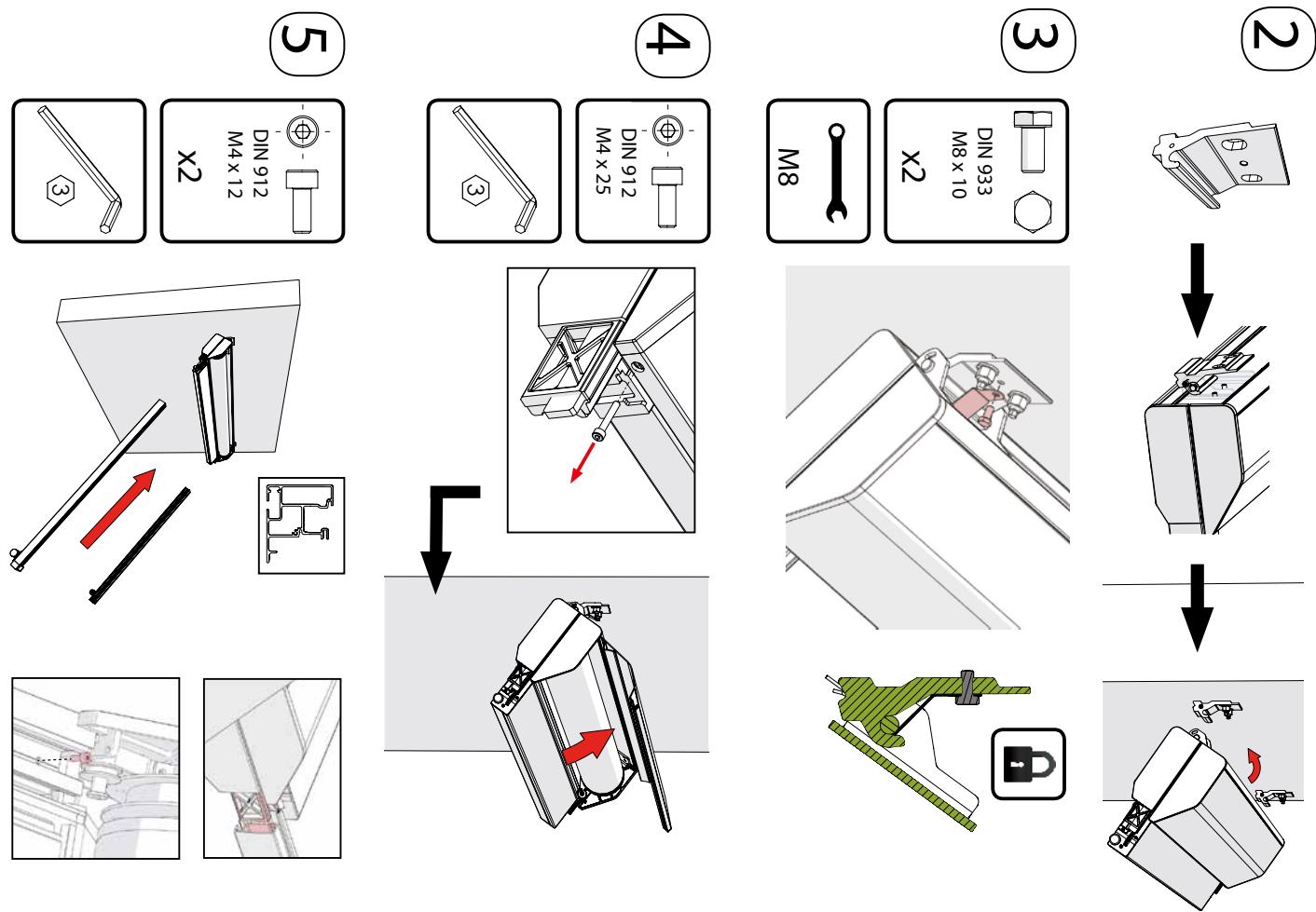


## COUPLED



## max. 4m

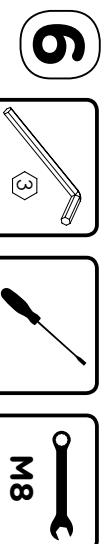


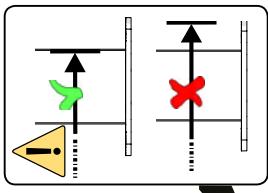


|   |                      |  |  |   |
|---|----------------------|--|--|---|
| 1 | Din 7991 M4 x 12     |  |  | 2 |
| 2 | Din 7981 4,8 x 13 mm |  |  | 4 |
| 3 | Din 125 - M5         |  |  | 4 |
| 4 | 050905               |  |  | 2 |
| 5 | DIN 933 - M10 x 35   |  |  | 2 |
| 6 | 050699               |  |  | 2 |
| 7 | DIN 7982 4,8 x 19    |  |  | 2 |
| 8 | 050940               |  |  | 2 |

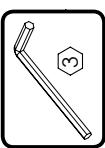
Legend for parts:

- 1: DIN 7991 M4 x 12
- 2: DIN 7981 4,8 x 13 mm
- 3: DIN 125 - M5
- 4: 050905
- 5: DIN 933 - M10 x 35
- 6: 050699
- 7: DIN 7982 4,8 x 19
- 8: 050940

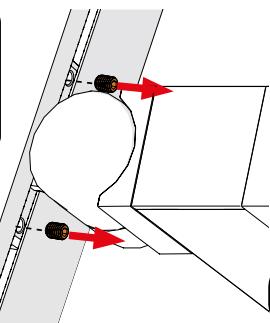




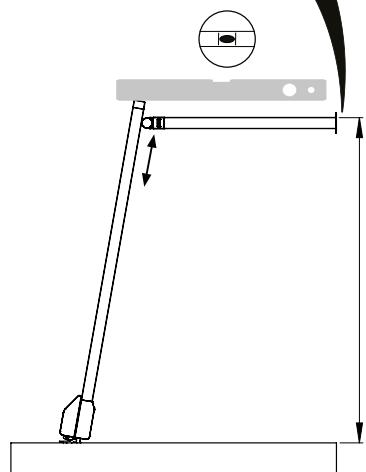
OPTION 1



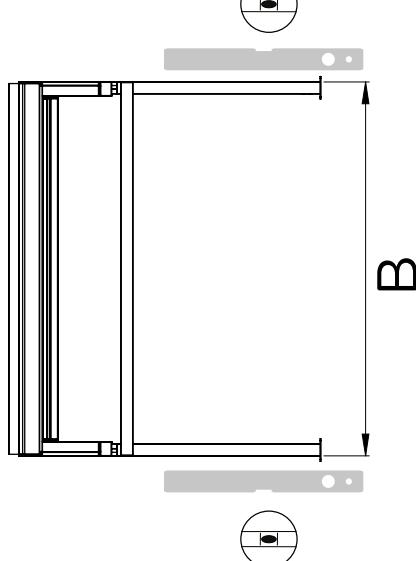
1



2

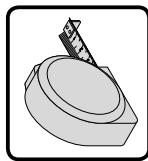


INCLINATION

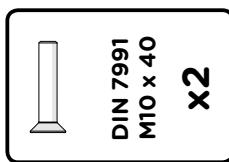
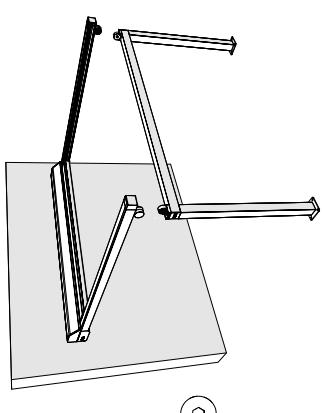
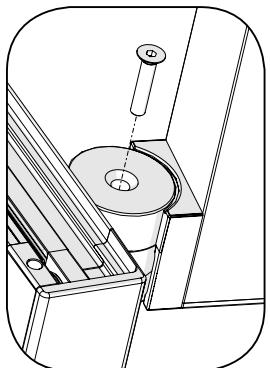
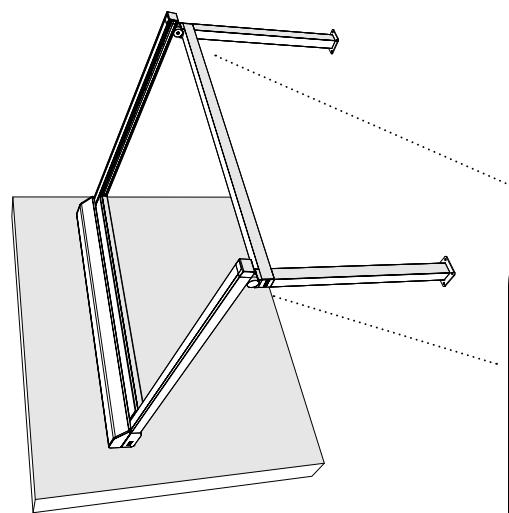
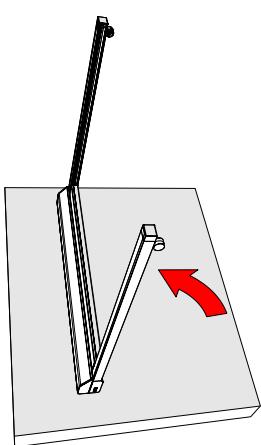


WIDTH

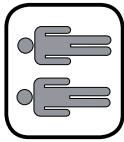
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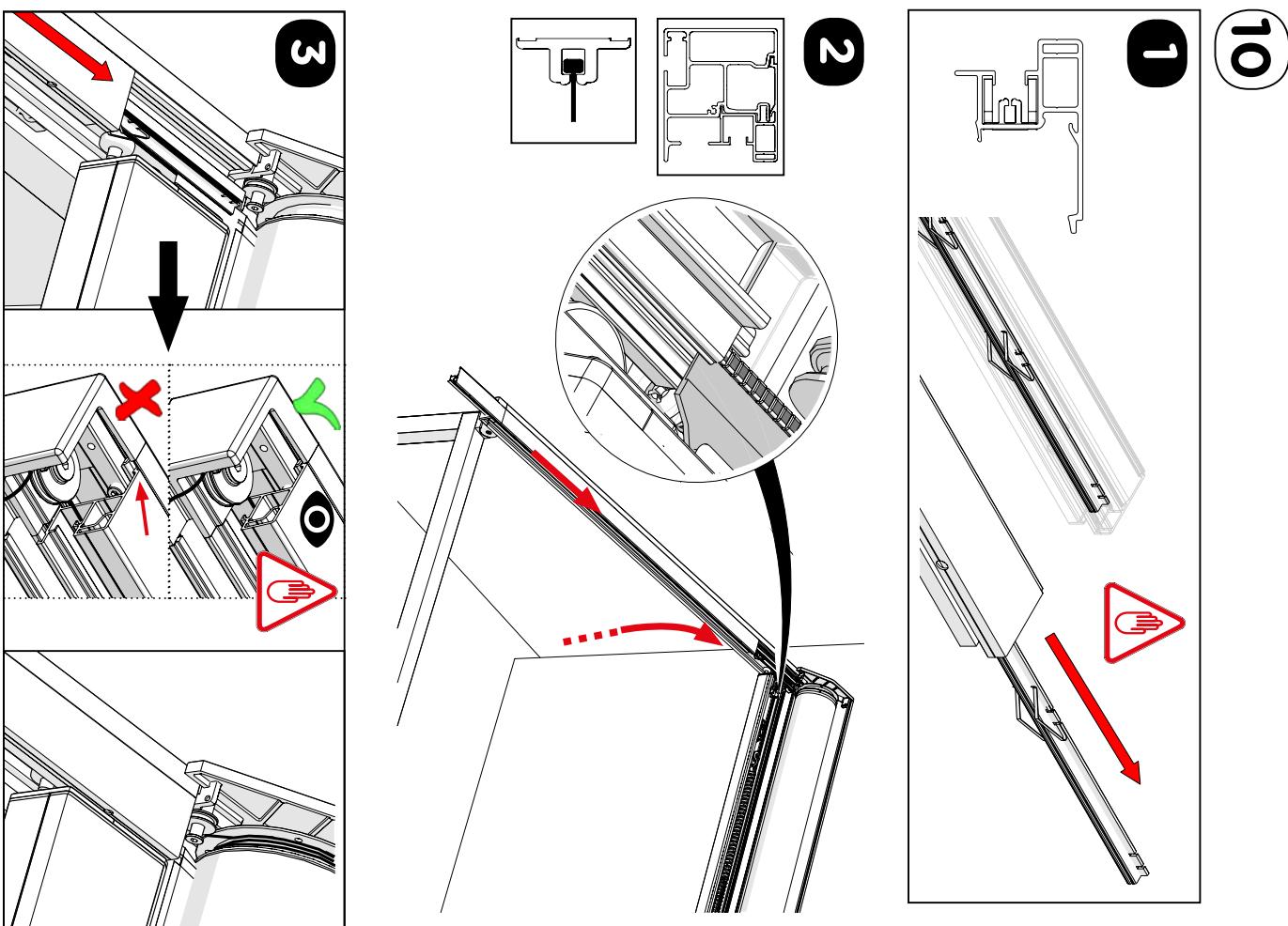
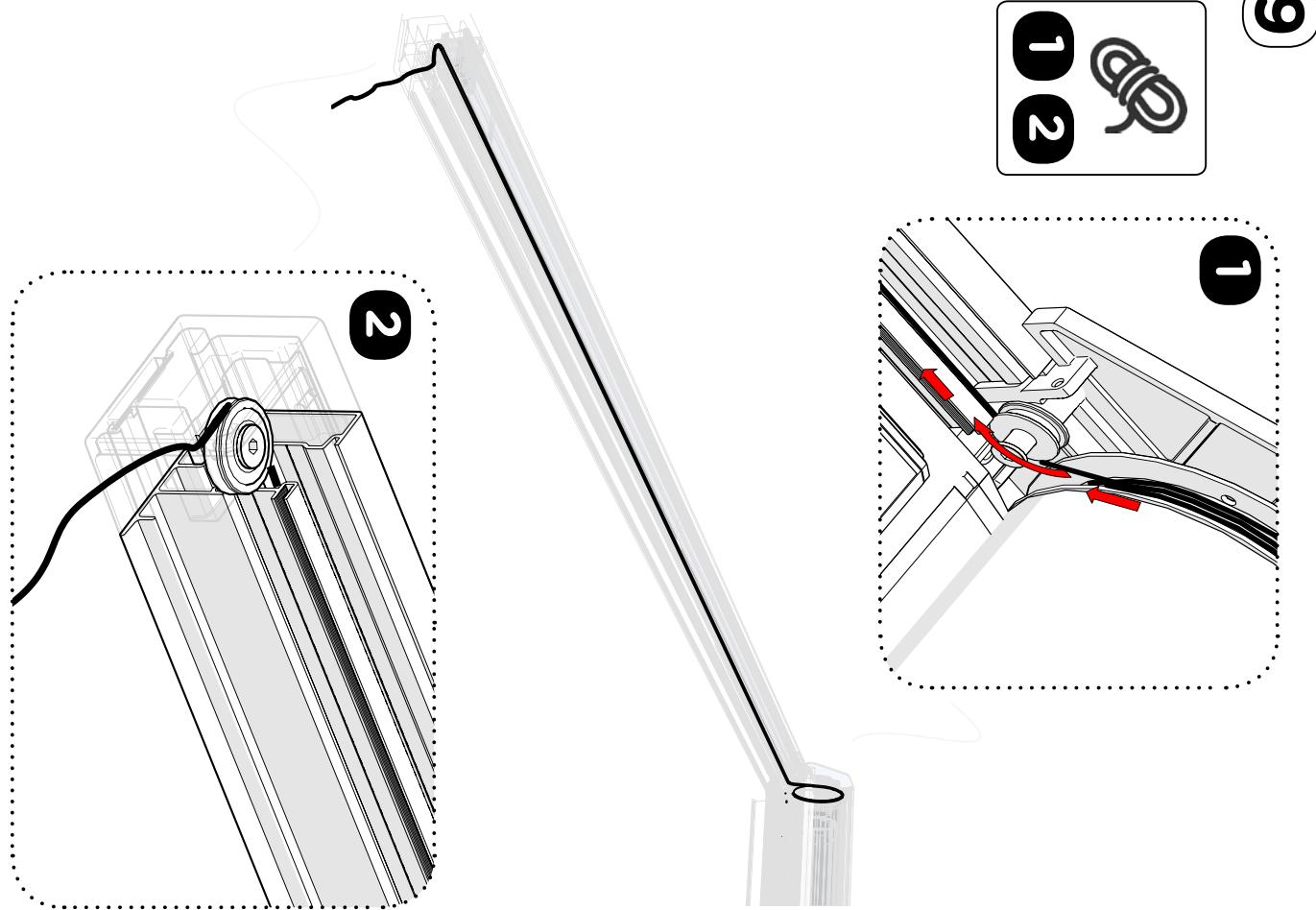


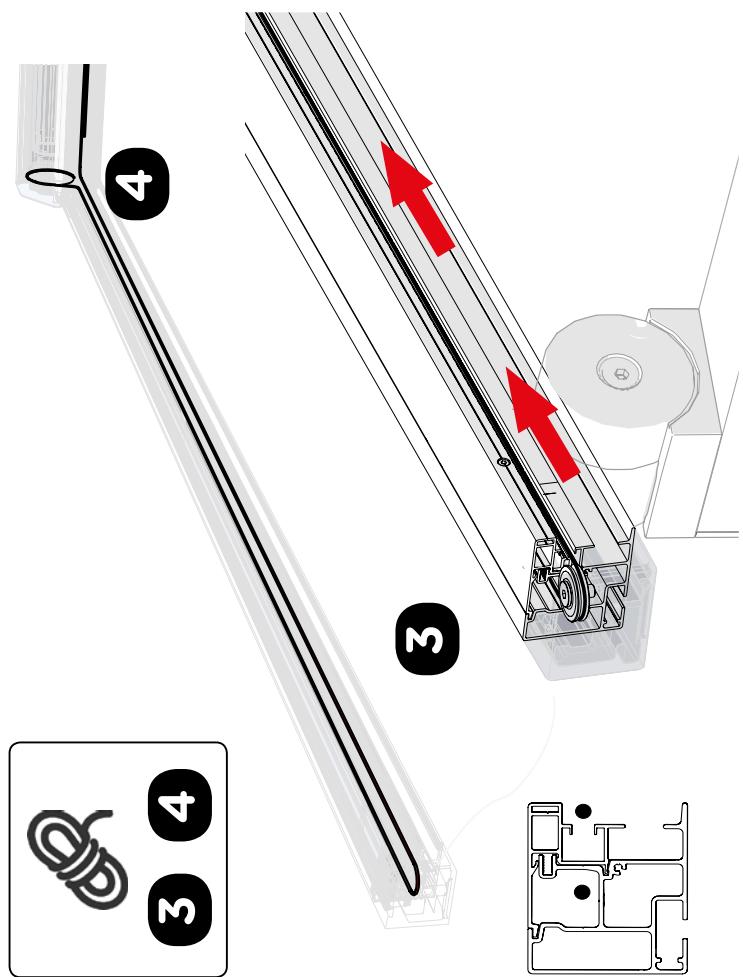
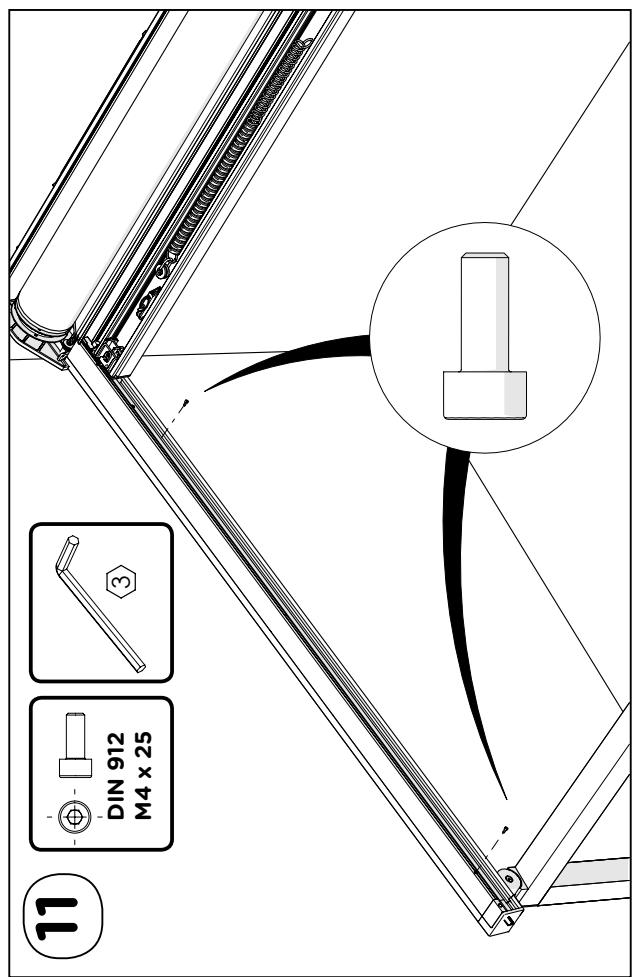
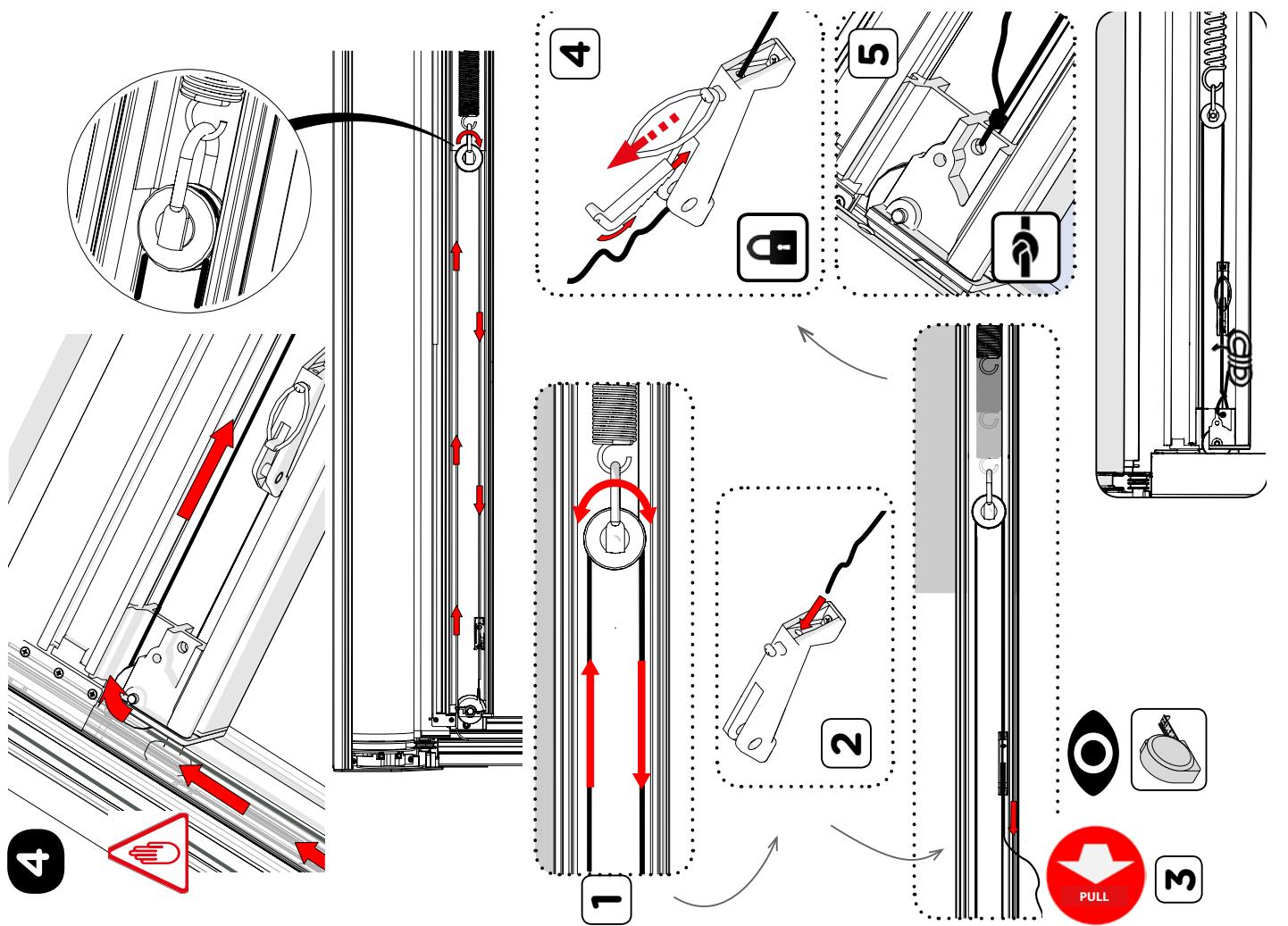
DO NOT ANCHOR THE STANDS TO THE GROUND YET!



7







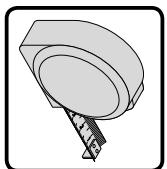
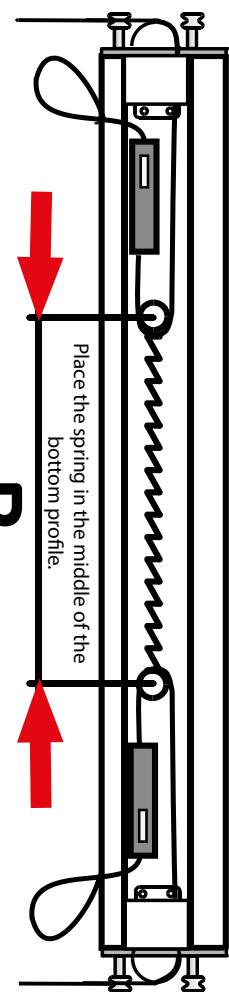
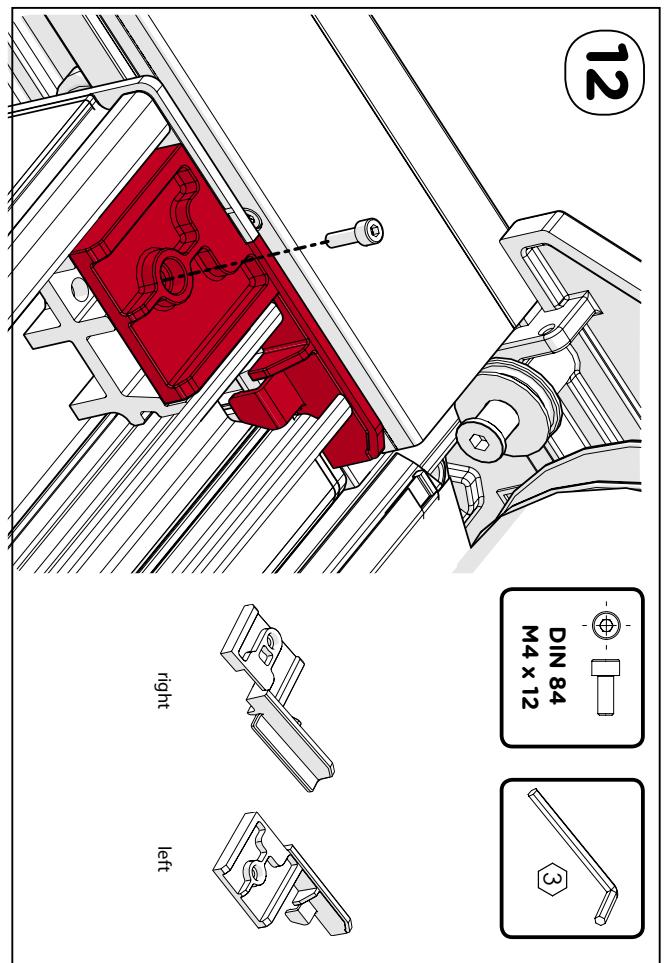
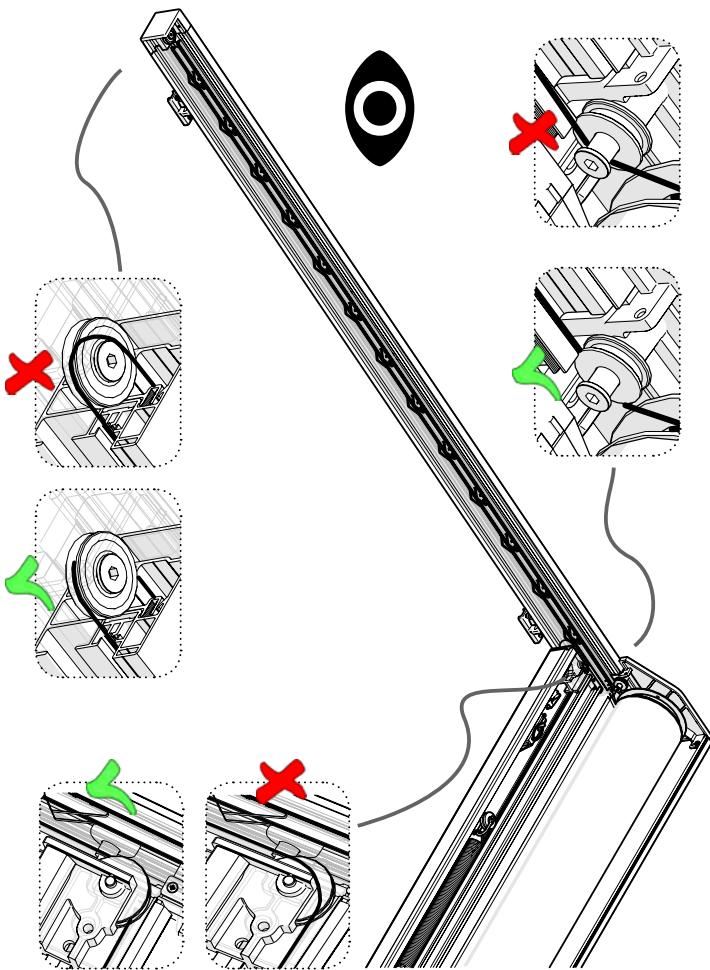


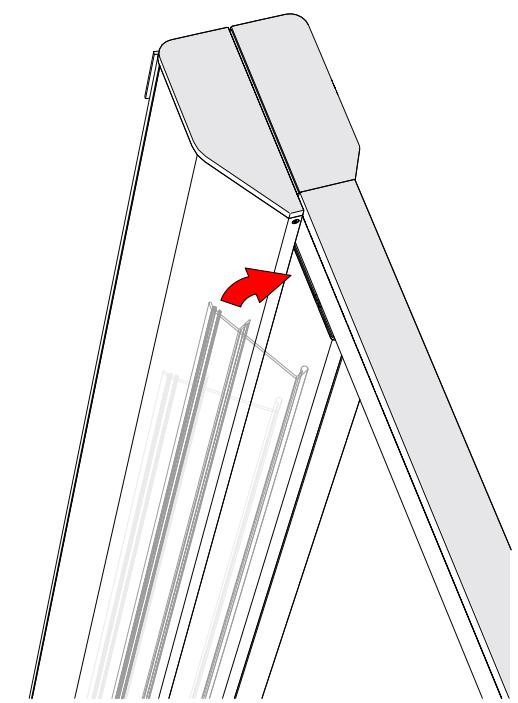
TABLE – spring distance R (in mm)



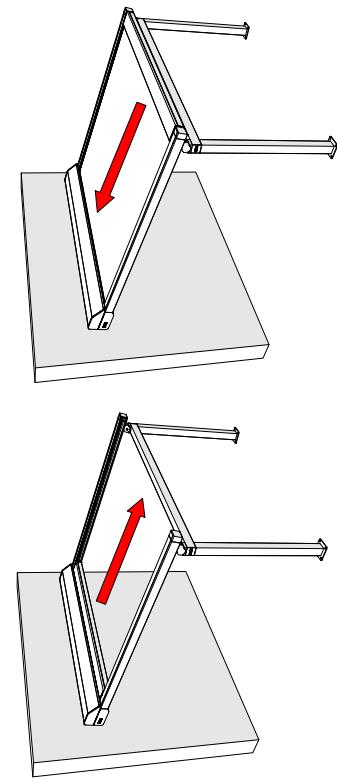
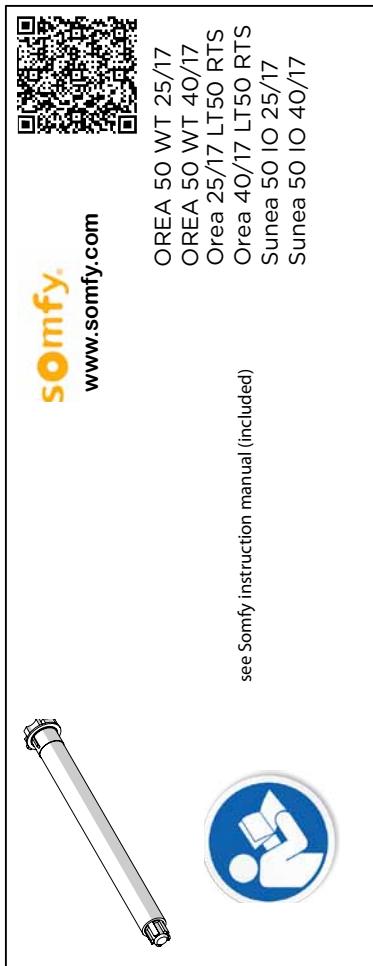
INCLINATION  
\*READ THE DISTANCE R IN THE COLOUR ZONE DEPENDING ON THE TYPE OF SPRING (650 mm / 850 mm).

Stretch the spring up in the range according to the table (if the spring is overstretched, the fabric may be pulled out of the zipper of the guide rail).

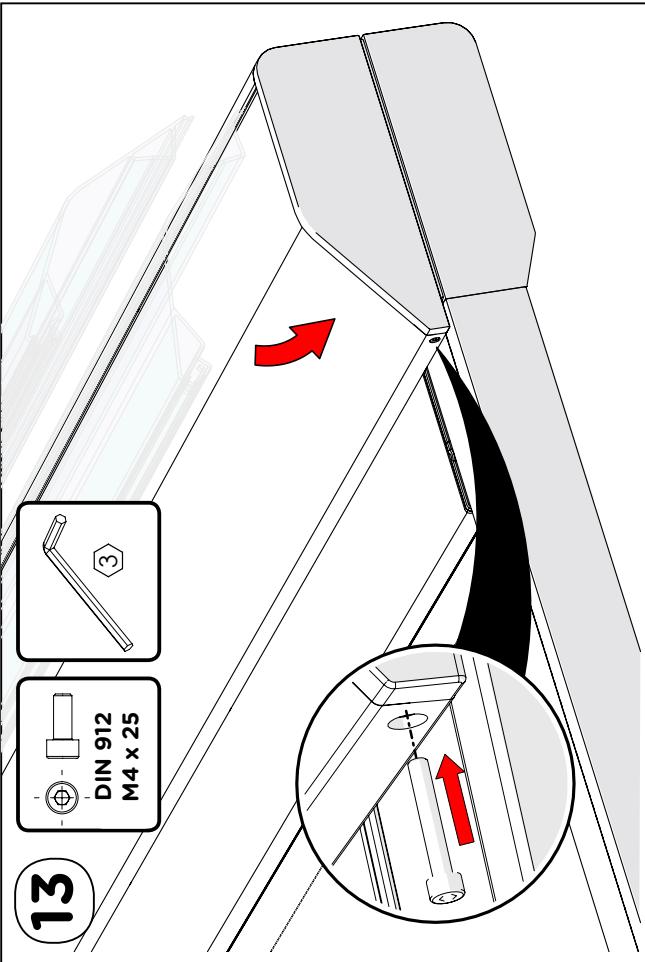




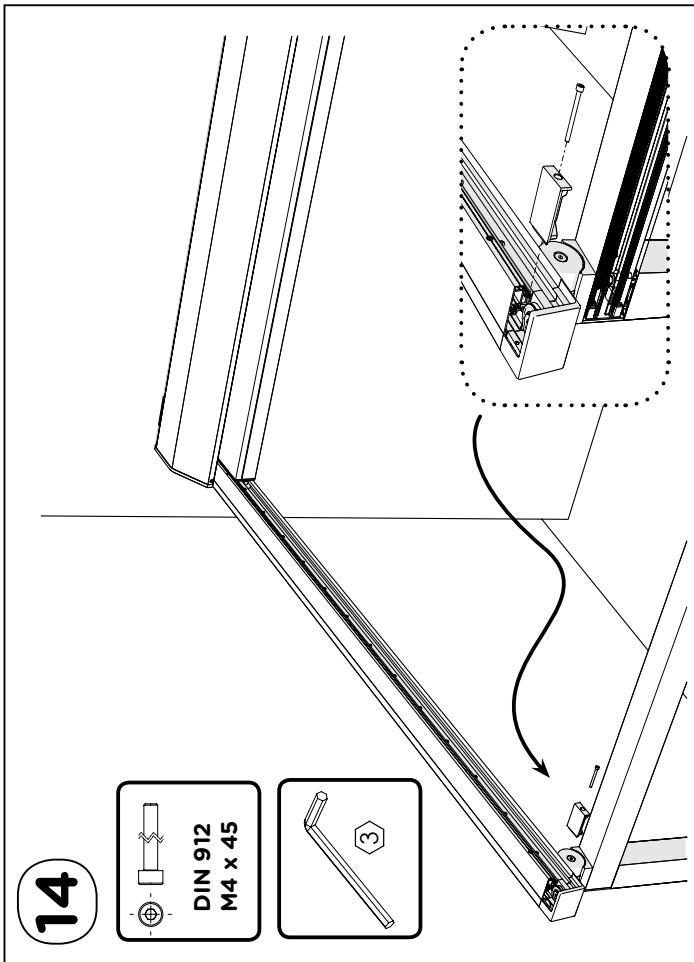
**15**



**16**



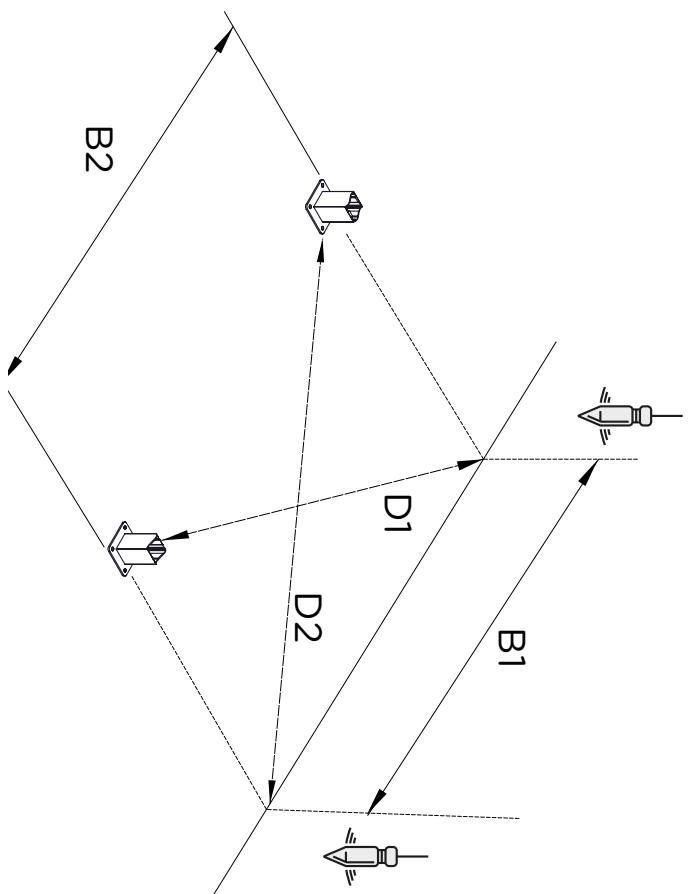
**13**



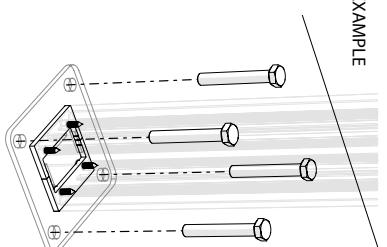
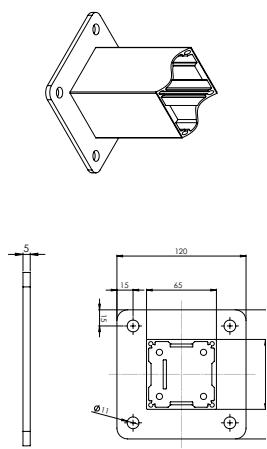
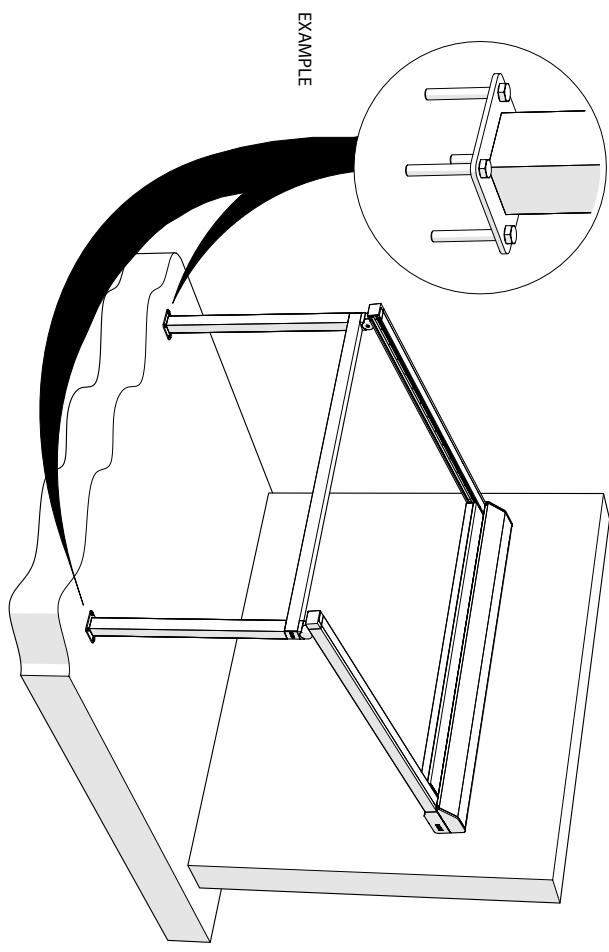
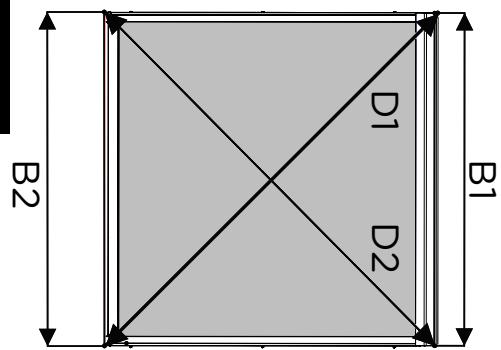
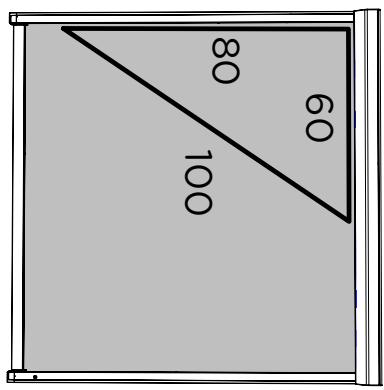
**14**

17

## CHECKING



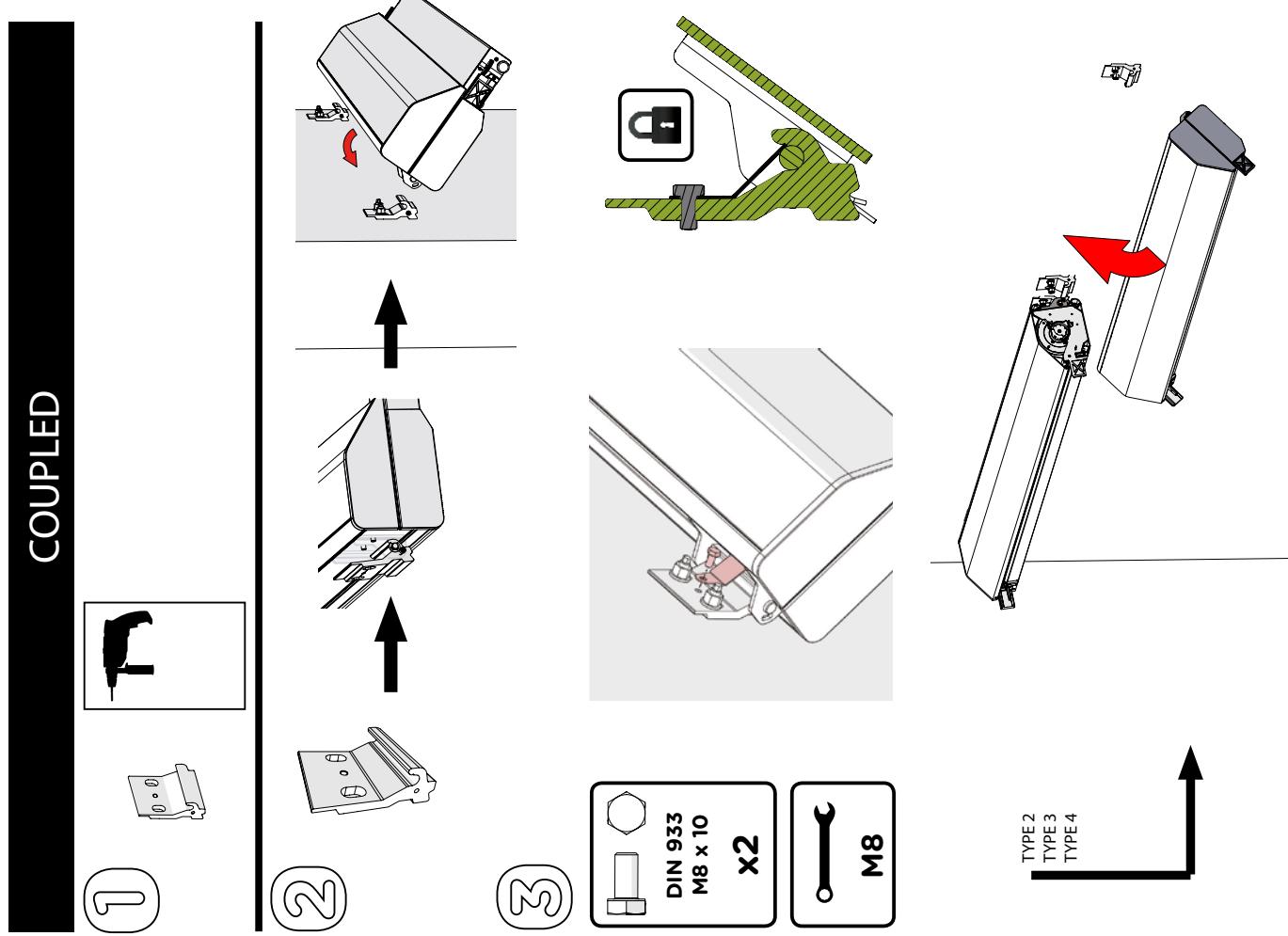
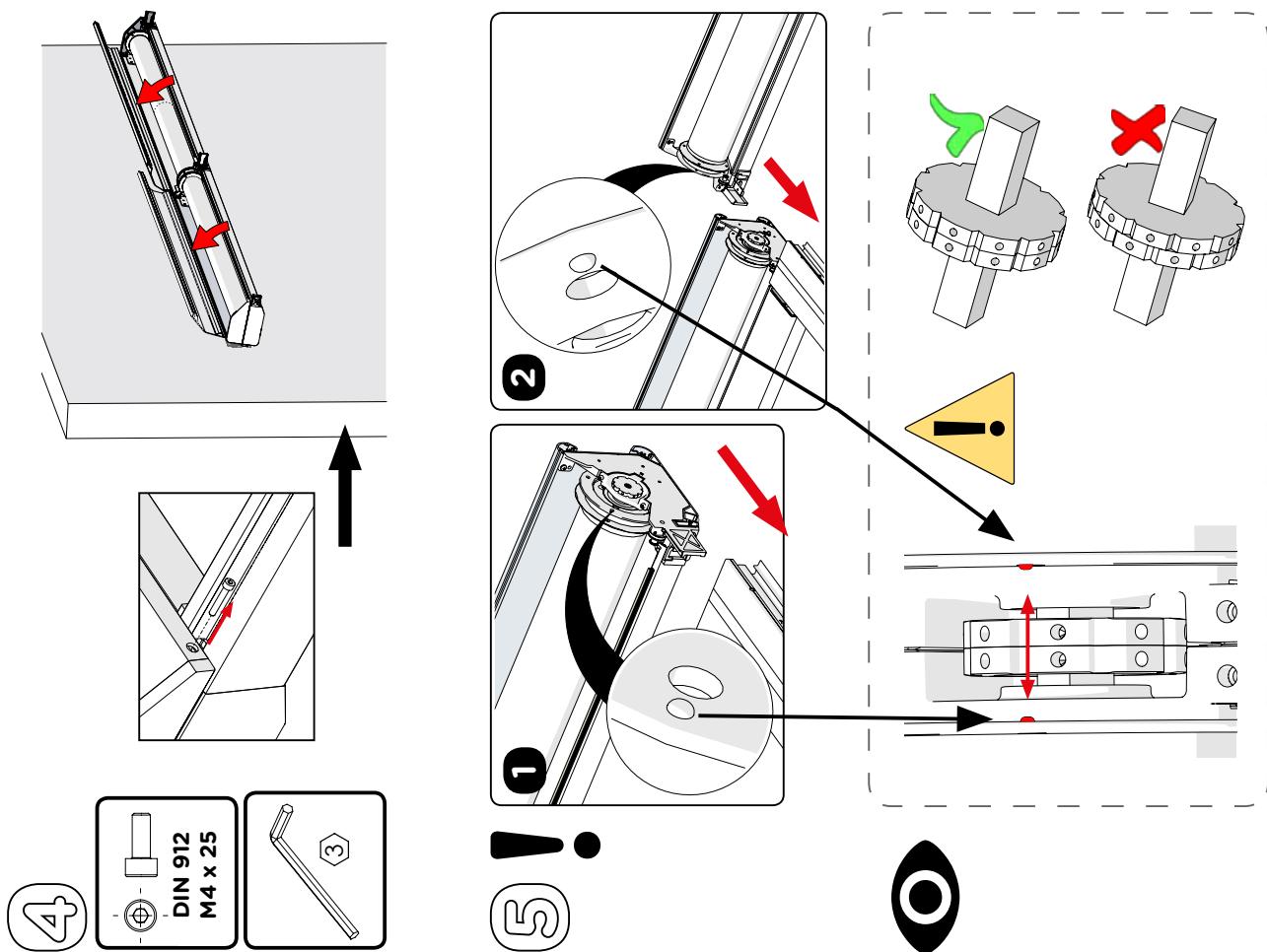
**B1 = B2 & D1 = D2**  
 $(+/- 2\text{mm})$     $(+/- 2\text{mm})$

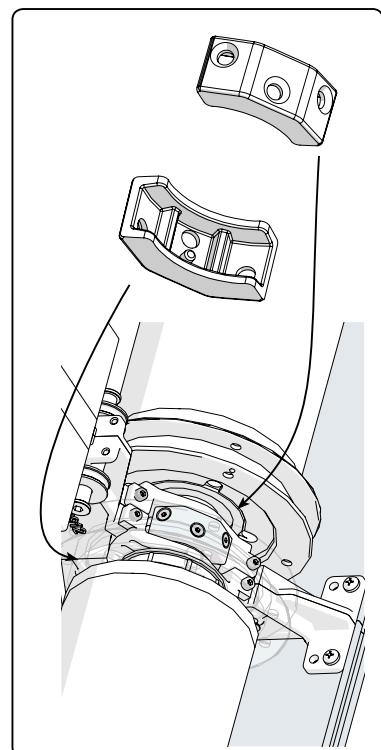
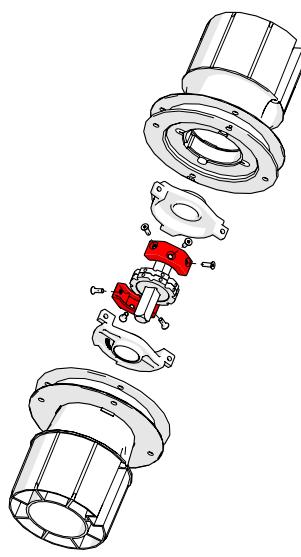
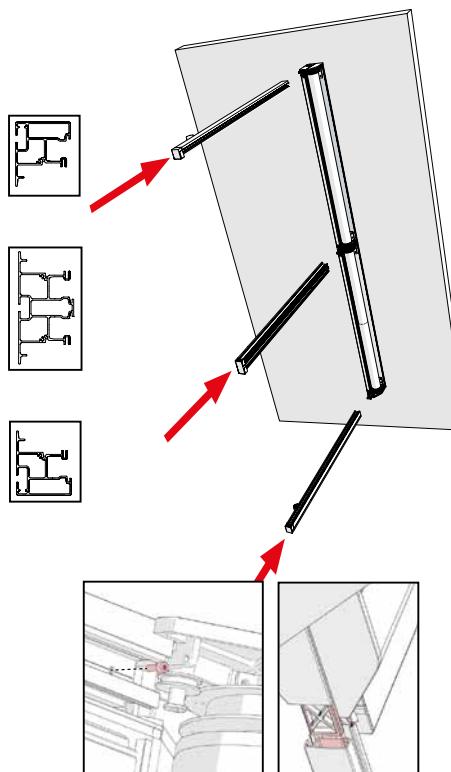
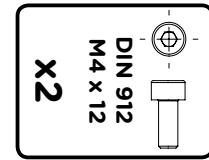
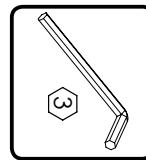
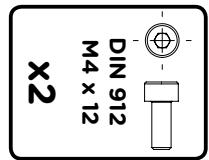
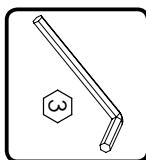
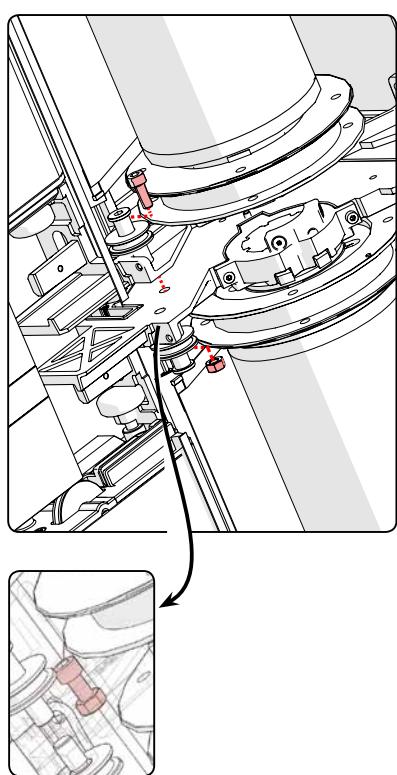
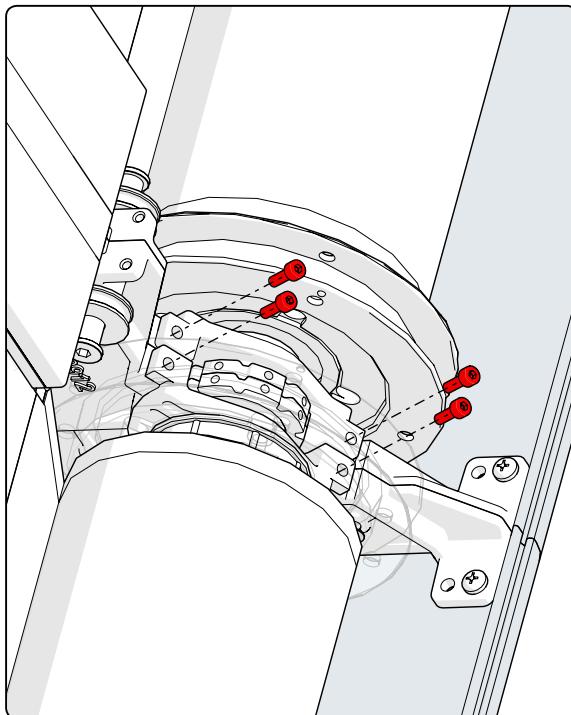
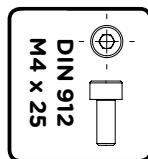
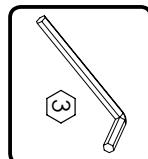
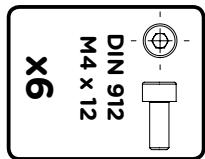
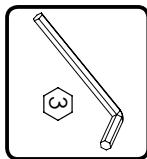


18

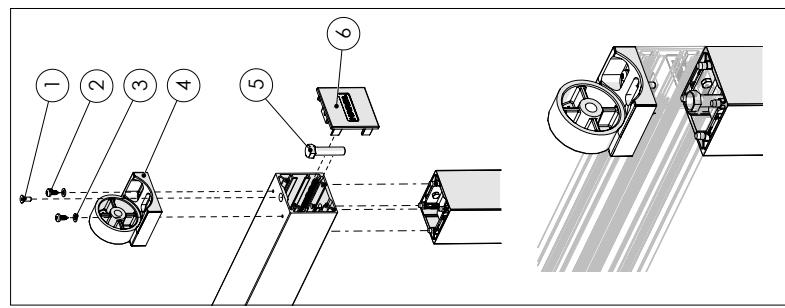


EXAMPLE





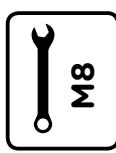
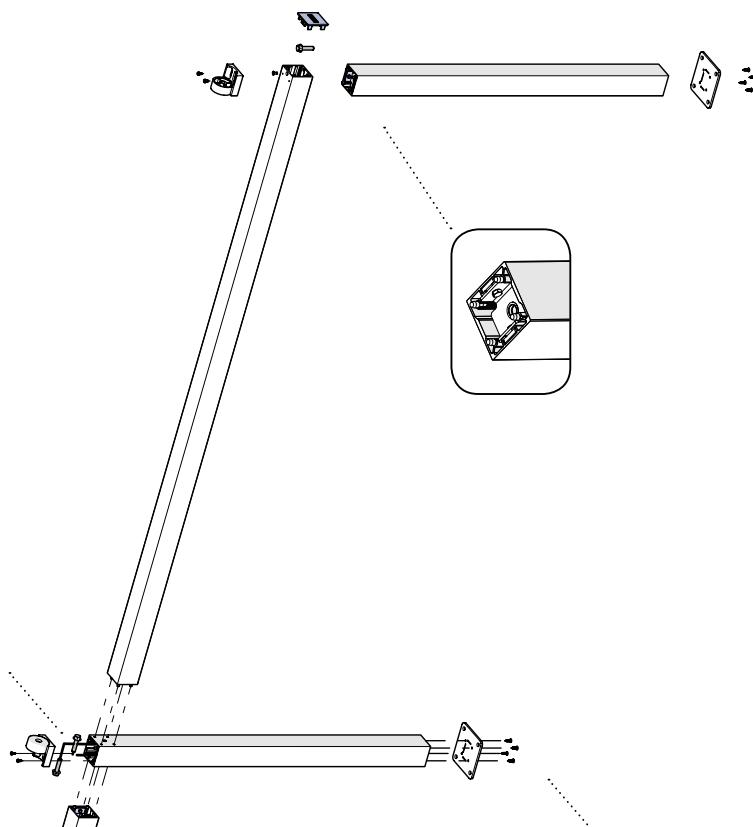
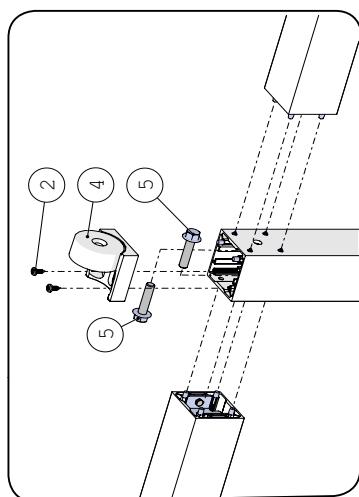
|   |                      |   |   |
|---|----------------------|---|---|
| 1 | Din 7991 M4 x 12     | 2 |   |
| 2 | Din 7981 4,8 x 13 mm | 6 | 6 |
| 3 | Din 125 - M5         | 4 | 4 |
| 4 | 050905               | 3 | 3 |
| 5 | DIN 933 - M10 x 35   | 4 | 4 |
| 6 | 050699               | 2 | 2 |
| 7 | DIN 7982 4,8 x 19    | 8 | 8 |
| 8 | 050940               |   | 2 |



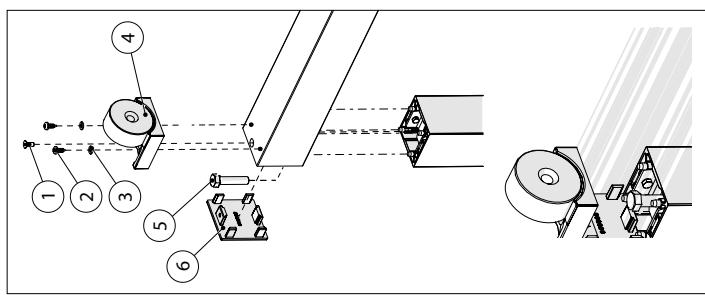
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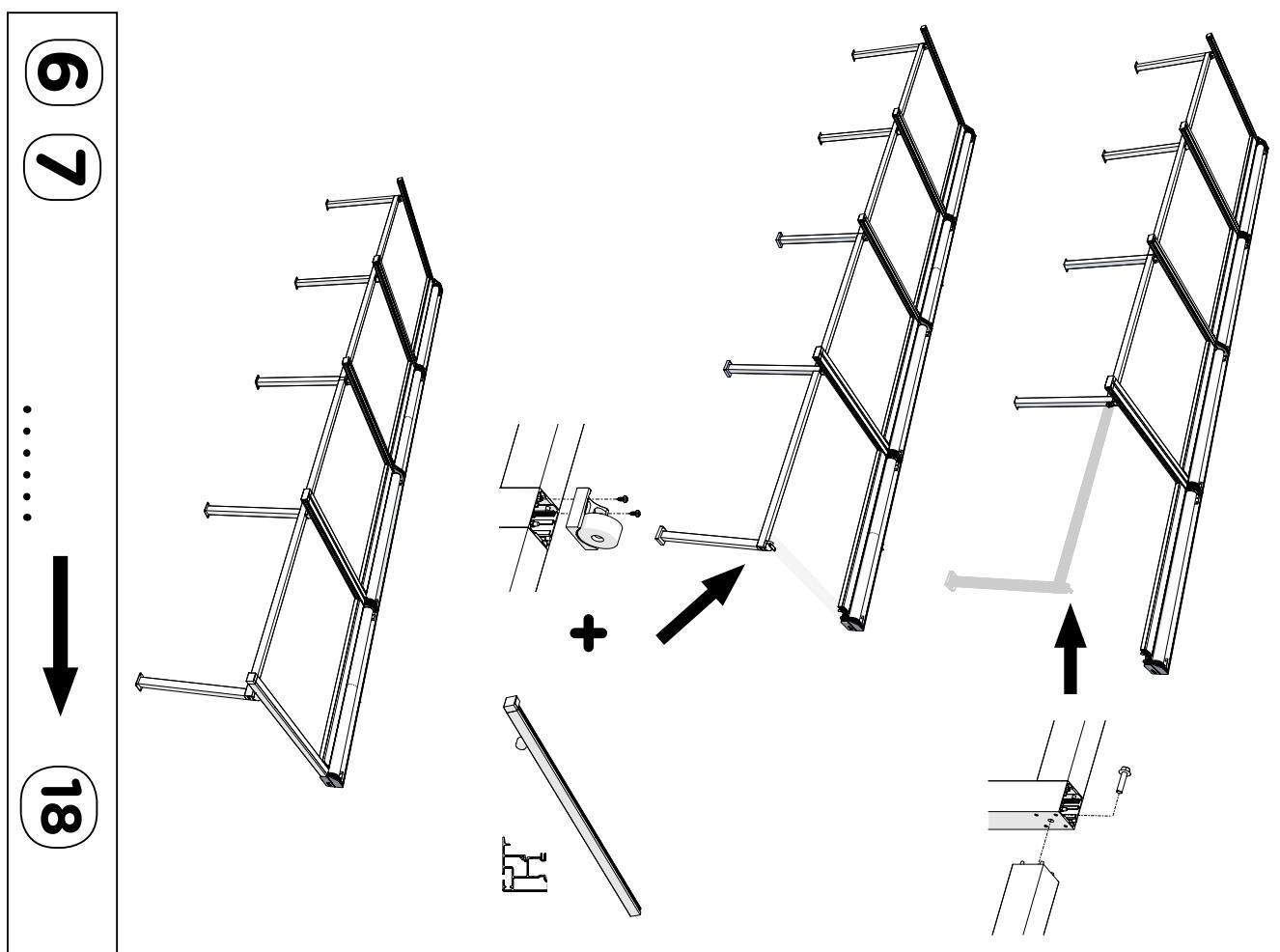
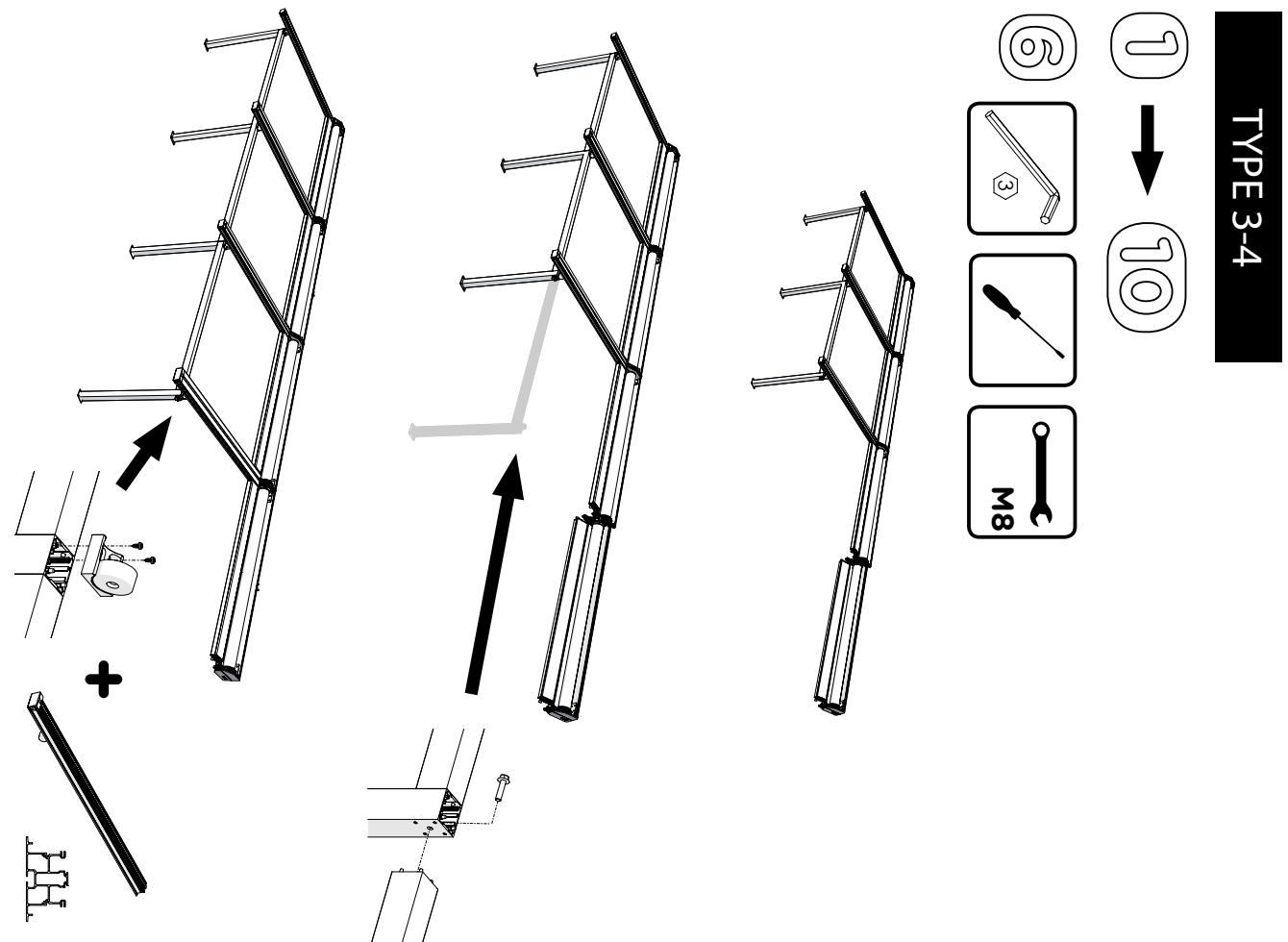


6 7

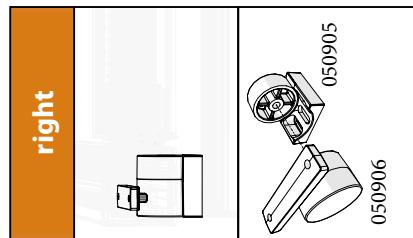
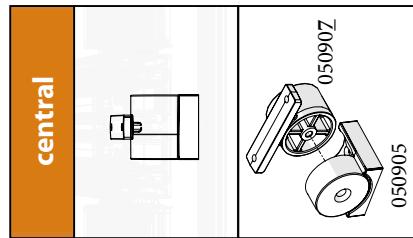
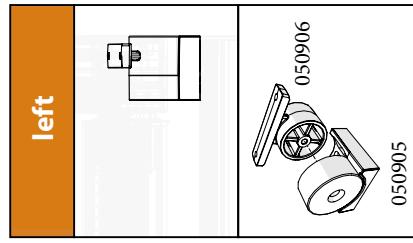
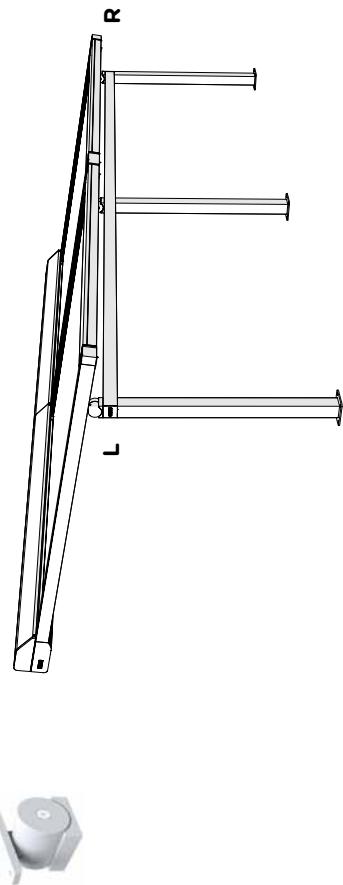


TYPE 2





**i**



## Notes:



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