



TECHNICAL MANUAL

# SCREEN BLINDS



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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, contributing one entity - the final product of ISOTRA.

## CE Product Marking



## DECLARATION OF PERFORMANCE

No. 001/2013

Producer: ISOTRA a.s., Bílovecká 2411/1, 746 01 Opava, IČ: 47679191

Hereby declares that:

Type: SCREEN – outside curtains (outside roller blind) with motor driving

Model: ZIP

Has been designed and manufactured in conformity with Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR).

Product description and designed use:

Screen ZIP is a product of interior and exterior shading technique, which has vertically mounted tube with winding fabrics. Screen ZIP is operated with motor. Control may be to the left or right side of the roller. The engine upper and lower roller position is determined electronically within the engine.

SCREEN ZIP is unique screen system. Thanks to the special guidance of the fabric in the side rails SCREEN ZIP substantially increases resistance to wind shutters in the closed position partially replaces anti-insect screen.

The product is used for shading according to the type of fabric up to 100%, to protect against glare (the sun, streetlights, car), to adjust the intensity of light passing through from the exterior to protect privacy (before observing from the outside) and complete blackout.

The product is designed for installation into the jamb. The blind is mounted with the help of screws with anchors on the wall before opening the window or the window frame.

Evaluation system: 4

Product evaluation according system 4 was performed by:

Product evaluation was made by component supplier: RESTENDE S.r.l, Via Chiringella, 74 – 20864 Agrate Brianza (MB), Italy

Declared performance:

| Essential characteristics | Performance | Harmonized standard |
|---------------------------|-------------|---------------------|
| Wind resistance           | 3           | EN 13561:2009       |

The performance of ZIP is in conformity with the performance declared in declared performance.

ZIP does not contain substances which are within the meaning of Article 33 of the European Parliament and Council Regulation (EC) No 1907/2006 (REACH) subject to the obligation to inform the customer.

This declaration has been issued under the sole responsibility of the manufacturer.

Opava: 01. 07. 2013

Ing. Bohumír Blachut  
General manager

ISOTRA a.s., Bílovecká 2411/1, 746 01 Opava  
tel.: +420 553 685 111, fax: +420 553 685 110zapsaná v obchodním rejstříku, úředně odděl. vložka 2169  
IČO: 47679191, DIČ: CZ47679191

## DECLARATION OF PERFORMANCE

No. 002/2013

Producer: ISOTRA a.s., Bílovecká 2411/1, 746 01 Opava, IČ: 47679191

Hereby declares that:

Type: SCREEN – outside curtains (outside roller blind) with motor driving

Model: GW

Has been designed and manufactured in conformity with Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR).

Product description and designed use:

Screen GW is a product of interior and exterior shading technique, which has vertically mounted tube with winding fabrics. Screen GW is operated with motor or manually. Control may be to the left or right side of the roller. The engine upper and lower roller position is determined electronically within the engine.

SCREEN GW is a modern element of shading. The product is suitable for shading both interior and exterior and is suitable for both office buildings and houses. SCREEN GW is offered with a cover profile with the possibility to operate by the side cable or guide rail.

The product is used for shading according to the type of fabric up to 100%, to protect against glare (the sun, streetlights, car), to adjust the intensity of light passing through from the exterior to protect privacy (before observing from the outside) and for complete blackout.

The product is designed for installation into the jamb. The blind is mounted with the help of screws with anchors on the wall before opening the window or the window frame.

Evaluation system: 4

Product evaluation according system 4 was performed by:

Product evaluation was made by component supplier: RESTENDE S.r.l, Via Chiringella, 74 – 20864 Agrate Brianza (MB), Italy

Declared performance:

| Essential characteristics | Performance | Harmonized standard |
|---------------------------|-------------|---------------------|
| Wind resistance           | 3           | EN 13561:2009       |

The performance of SCREEN GW is in conformity with the performance declared in declared performance.

SCREEN GW does not contain substances which are within the meaning of Article 33 of the European Parliament and Council Regulation (EC) No 1907/2006 (REACH) subject to the obligation to inform the customer.

This declaration has been issued under the sole responsibility of the manufacturer.

Opava: 01. 07. 2013

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## DECLARATION OF PERFORMANCE

No. 003/2013

Producer: ISOTRA a.s., Bílovecká 2411/1, 746 01 Opava, IČ: 47679191

Hereby declares that:

Type: SCREEN – outside curtains (outside roller blind) with motor driving

Model: LITE

Has been designed and manufactured in conformity with Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR).

Product description and designed use:

Screen LITE is a product of interior and exterior shading technique, which has vertically mounted tube with winding fabrics. Screen LITE is operated with motor or manually. Control may be to the left or right side of the roller. The engine upper and lower roller position is determined electronically within the engine.

SCREEN LITE is a lightweight variant of SCREEN GW. SCREEN LITE is offered with a cover profile with the possibility to operate by the side cable or guide rail.

The product is used for shading according to the type of fabric up to 100%, to protect against glare (the sun, streetlights, car), to adjust the intensity of light passing through from the exterior to protect privacy (before observing from the outside) and for complete blackout.

The product is designed for installation into the jamb. The blind is mounted with help of screws with anchors on the wall before opening the window or the window frame.

Evaluation system: 4

Product evaluation according system 4 was performed by:

Product evaluation was made by component supplier: RESTENDE S.r.l, Via Chiringella, 74 – 20864 Agrate Brianza (MB), Italy

Declared performance:

| Essential characteristics | Performance | Harmonized standard |
|---------------------------|-------------|---------------------|
| Wind resistance           | 3           | EN 13561:2009       |

The performance of SCREEN LITE is in conformity with the performance declared in declared performance.

SCREEN LITE does not contain substances which are within the meaning of Article 33 of the European Parliament and Council Regulation (EC) No 1907/2006 (REACH) subject to the obligation to inform the customer.

This declaration has been issued under the sole responsibility of the manufacturer.

Opava: 01. 07. 2013

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General manager

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## DECLARATION OF PERFORMANCE

No. 035/2013

Producer: ISOTRA a.s., Bílovecká 2411/1, 746 01 Opava, IČ: 47679191

Hereby declares that:

Type: SCREEN – outside curtains (outside roller blind) with motor driving

Model: ZIP ECONOMY

Has been designed and manufactured in conformity with Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR).

Product description and designed use:

Screen ZIP ECONOMY is a product of interior and exterior shading technique, which has vertically mounted tube with winding fabrics. Launch and recovery controls the motor. Control may be to the left or right side of the roller. The engine upper and lower roller position is determined electronically within the engine.

SCREEN ZIP ECONOMY is unique screen system. Thanks to the special guidance of the fabric in the side rails SCREEN ZIP ECONOMY substantially increases resistance to wind shutters in the closed position partially replaces anti-insect screen.

The product is used for shading according to the type of fabric up to 100%, to protect against glare (the sun, streetlights, car), to adjust the intensity of light passing through from the exterior to protect privacy (before observing from the outside) and complete blackout.

The blind is mounted screws with anchors on the wall before opening the window or the window frame only with the front mounting of the guide rail.

Evaluation system: 4

Product evaluation according system 4 was performed by:

Product evaluation made by: ČSĽ, a.s. Praha, pracoviště Zlín, K Cibelně 304, 764 32 Zlín – Louky a vydal hodnocení HSZ-13-014/OV.

Declared performance:

| Essential characteristics | Performance | Harmonized standard |
|---------------------------|-------------|---------------------|
| Wind resistance           | 3           | EN 13561:2009       |

The performance of ZIP ECONOMY is in conformity with the performance declared in declared performance.

ZIP ECONOMY does not contain substances which are within the meaning of Article 33 of the European Parliament and Council Regulation (EC) No 1907/2006 (REACH) subject to the obligation to inform the customer.

This declaration has been issued under the sole responsibility of the manufacturer.

Opava: 01. 09. 2014

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## DECLARATION OF PERFORMANCE

č. 034/2017

Producer: **ISOTRA a.s., Bilovecká 2411/1, 746 01 Opava, IČ: 47679191**

Hereby declares that:

Type: **SCREEN – outside curtains (outside roller blind) with motor driving**

Model: **HR10-ZIP**

Has been designed and manufactured in conformity with Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR).

Product description and designed use:  
**The product is used for shading according to the type of fabric up to 100%.**

Evaluation system: 4

Harmonized standard:  
**EN 13561:2015**

Declared performance:

| Essential characteristics            | Performance                                |
|--------------------------------------|--------------------------------------------|
| Wind resistance                      | Class 3                                    |
| Thermal transmittance value $g_{10}$ | 0,03 - 0,6 (according to selected fabric)* |

\*valid for glazing with parameters  $g = 0,39$  and  $U_g = 1,2 \text{ W/m}^2\text{K}$

The performance of HR10-ZIP is in conformity with the performance declared in declared performance.  
 This declaration has been issued under the sole responsibility of the manufacturer ISOTRA a.s., Bilovecká 2411/1, 746 01 Opava.

Opava, 1.02.2018

  
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## Declaration of Properties

No. 036/2017

Manufacturer: **ISOTRA a. s., Bilovecká 2411/1, 746 01 Opava, IČ No.: 47679191**

hereby declares that:

type: **SCREEN – exterior motor-driven shade (exterior roller blind)**

product: **SCREEN SKY**

was designed and manufactured in accordance with Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR).

Product description and designed use:  
**The product is used for shading according to the type of fabric up to 100%.**

Evaluation system: 4

Harmonized standard:  
**EN 13561:2015**

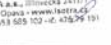
Declared performance:

| Essential characteristics            | Performance                                |
|--------------------------------------|--------------------------------------------|
| Wind resistance                      | Class 2                                    |
| Thermal transmittance value $g_{10}$ | 0,03 - 0,6 (according to selected fabric)* |

\*valid for glazing with parameters  $g = 0,39$  and  $U_g = 1,2 \text{ W/m}^2\text{K}$

The performance of SCREEN SKY is in conformity with the performance declared in declared performance.  
 This declaration has been issued under the sole responsibility of the manufacturer ISOTRA a.s., Bilovecká 2411/1, 746 01 Opava.

Opava, 01. 02. 2017

  
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### Length expansion of screen roller shutters

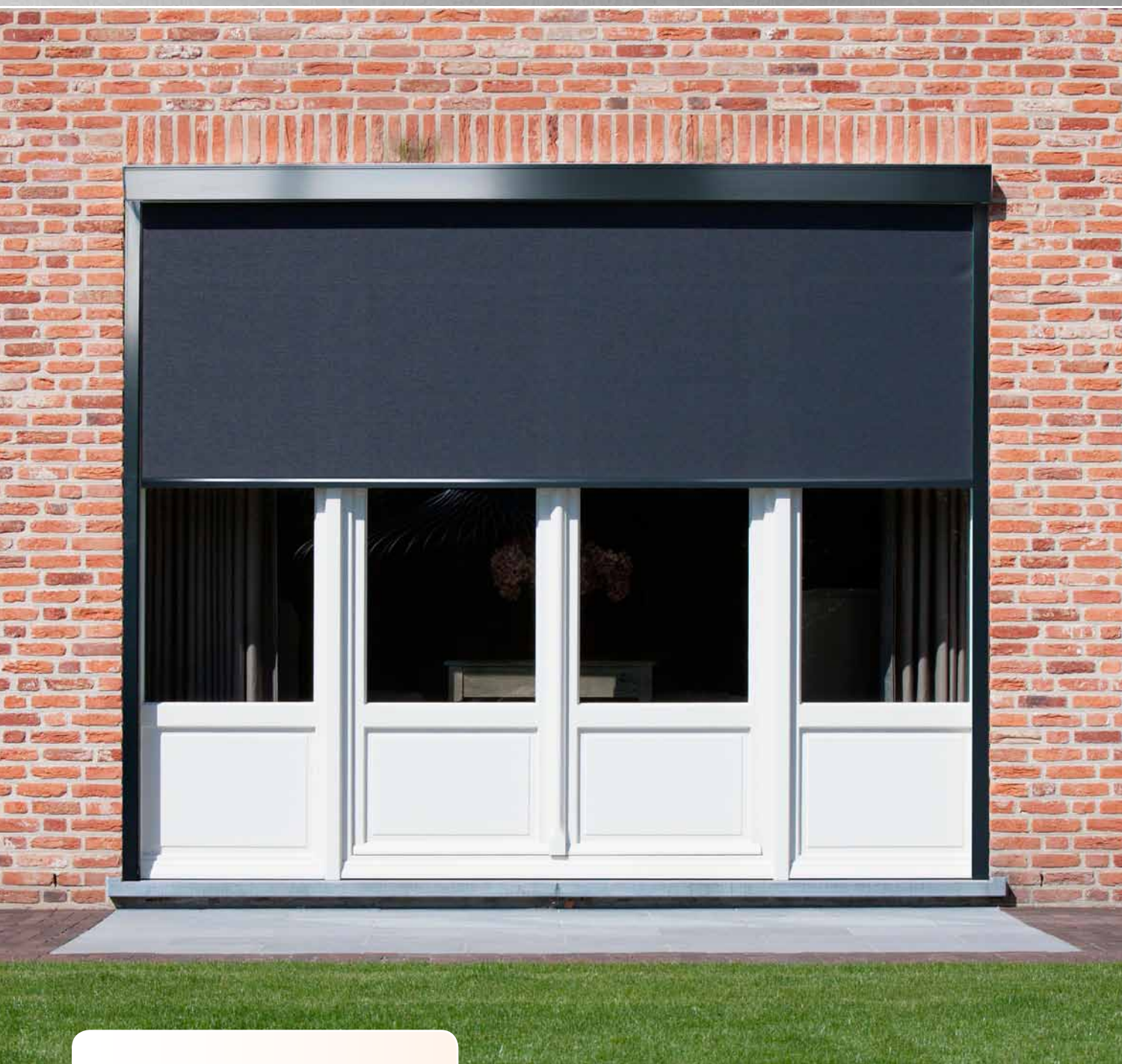
When the temperature of aluminium goes up, the metal expands; this phenomenon is called thermal expansion. The coefficient of thermal expansion of aluminium alloy is  $23.5 \mu\text{m}/(\text{m} \cdot \text{K})$ .

Example:

A screen roller shutter at a temperature of  $20^\circ\text{C}$  measures 4000 mm, if it is heated to a temperature of  $50^\circ\text{C}$  - on a sunny day, it will then measure 4003 mm due to thermal expansion. As a result of the change in aluminium temperature, there will be an increase in length of +3 mm. When installing a screen roller shutter in the surrounding buildings, it is important to take into account that there may be dimensional changes of the screen roller shutter with respect to the ambient temperature.

When focusing on positioning options, it is important to consider the thermal expansion of the aluminium profile in relation to the temperature of the surrounding environment. We recommend positioning at an ambient temperature of  $+23$  through  $-5^\circ\text{C}$ .

## SCREEN ALFA-ZIP

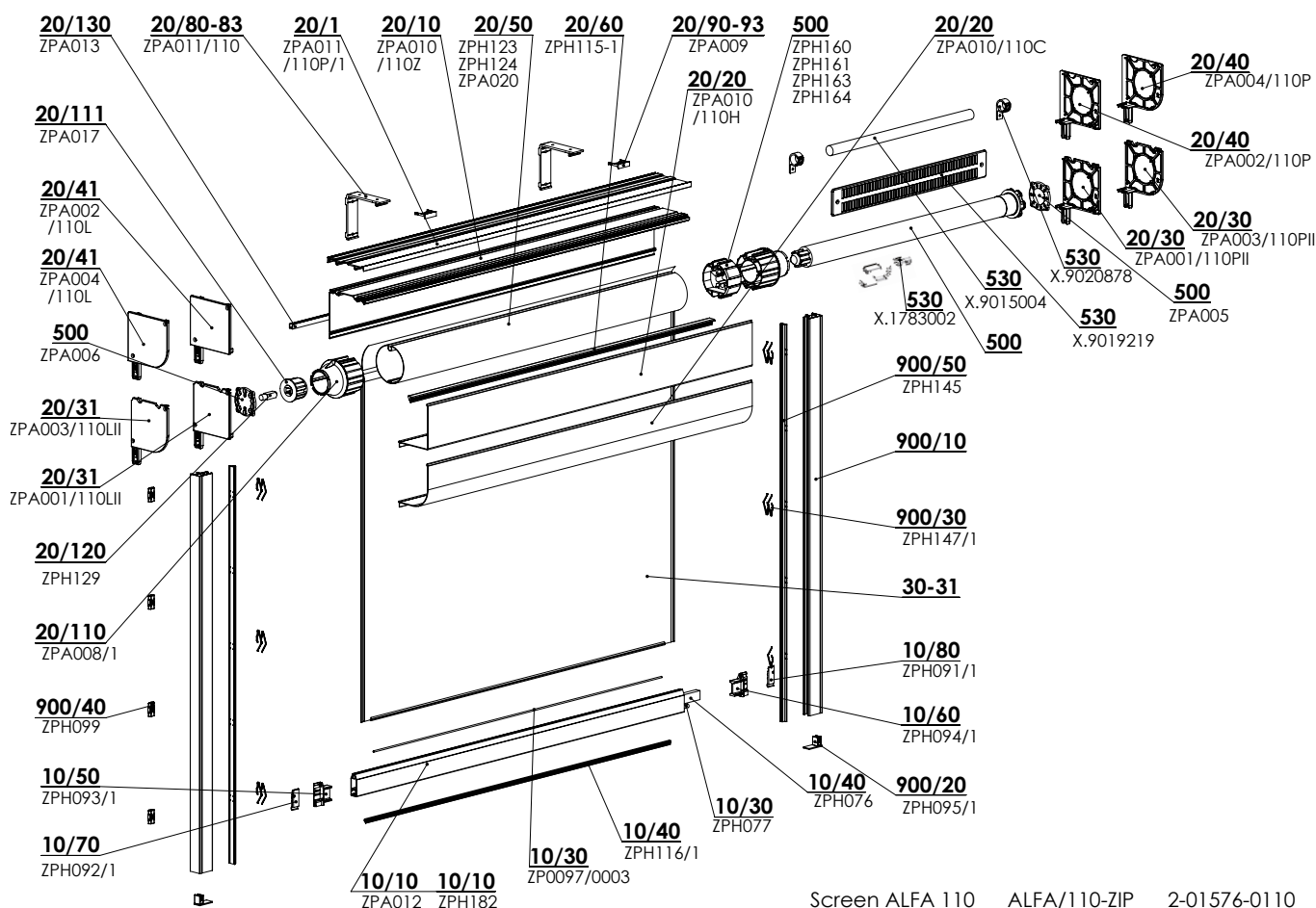


- ▲ 2 types of modern boxes: square box for austere architecture or rounded box for more traditional buildings, both types available in 3 sizes
- ▲ Weighted bottom slat to guide and tension the fabric
- ▲ the highest wind resistance (wind class 6)
- ▲ Simple and fast assembly
- ▲ Guaranteed area up to 18 m<sup>2</sup>
- ▲ Possibility to couple up to 3 roller blinds
- ▲ Possibility of solar power supply

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## SCREEN ALFA-ZIP

### Basic Product Specification



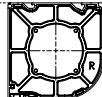
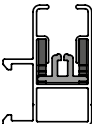
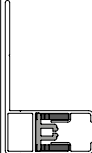
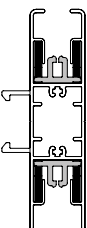
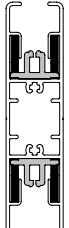
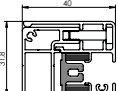
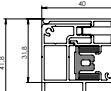
### Control

Serves for lifting and lowering the screen blind. Two types of control are available:

**Motor** - standard asynchronous tubular motor Maestria Wt, or optional asynchronous tubular motors Maestria iO, Sunea Screen iO, Geiger, Altus RTS (minimum blind width 795 mm), control by solar power with motor Sunea 40 io, Sunea RTS (minimum blind width 595 mm) Isotra Basic, Isotra Basic Solar 20/12, see page 37.

**Crank** - self-braking worm-worm wheel mechanism, with 1:4 transmission ratio, with a built-in end stop (prevents wrong rolling up of the fabric).

### Specification (for motor)

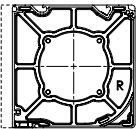
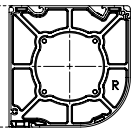
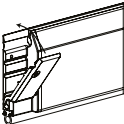
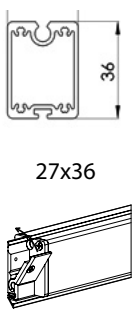
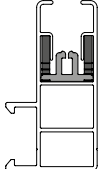
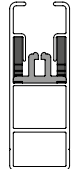
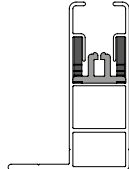
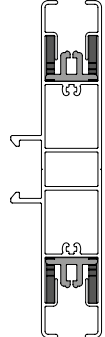
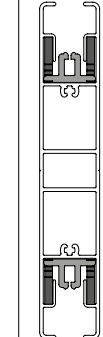
|                | Box                                                                                                                                                  |                                                                                     | Bottom rail                                                                                  | Bottom rail                                                                                                                                                                                 | Side guidance                                                                                   |                                                                                                 |                                                                                                                                                              |                                                                                                  |                                                                                                   |                                                                                                   |                                                                                                     |                                                                                                   |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                | square                                                                                                                                               | rounded                                                                             | high                                                                                         | high                                                                                                                                                                                        | guide rail                                                                                      |                                                                                                 |                                                                                                                                                              |                                                                                                  |                                                                                                   |                                                                                                   |                                                                                                     |                                                                                                   |
| Abbreviation   | BOX for SCREEN ALFA                                                                                                                                  |                                                                                     | ZPA012                                                                                       | ZPH182                                                                                                                                                                                      | ZPA016 /839                                                                                     | ZPA016 /830                                                                                     | ZPH214 /837                                                                                                                                                  | ZPA016 /838                                                                                      | ZPH071                                                                                            | ZPH072                                                                                            | ZPA016/840-1                                                                                        | ZPA037/849                                                                                        |
| Dimension (mm) | 90x90<br>110x110<br>150 x 150                                                                                                                        | 90x90<br>110x110<br>150 x 150                                                       | 18x50*                                                                                       | 27x36**                                                                                                                                                                                     | 30x40                                                                                           | 20x40                                                                                           | 40x70                                                                                                                                                        | 40x40                                                                                            | 30x80                                                                                             | 20x80                                                                                             | 31,8x40                                                                                             | 41,8x40                                                                                           |
| Material       | Al                                                                                                                                                   | Al                                                                                  | Al                                                                                           | Al                                                                                                                                                                                          | Al                                                                                              | Al                                                                                              | Al                                                                                                                                                           | Al                                                                                               | Al                                                                                                | Al                                                                                                | Al                                                                                                  | Al                                                                                                |
|                |                                                                   |  | <br>18x50 | <br>27x36                                                                                                | <br>type 839 | <br>type 830 | <br>type 837                                                              | <br>type 838 | <br>type 865 | <br>type 866 | <br>type 840-1 | <br>type 849 |
| Colors         | Standard:<br>RAL 9006 White aluminium<br>RAL 9006S Light silver structure<br>RAL 9007 Grey aluminium<br>RAL 9007S Silver structure<br>RAL 9010 white |                                                                                     |                                                                                              | RAL 9010M White matte<br>RAL 9010S White structure<br>RAL 7016 Anthracite grey<br>RAL 7016M Anthracite gray matte<br>RAL 7016S Anthracite gray structure<br>RAL 8014S Sepia brown structure |                                                                                                 |                                                                                                 | RAL 8014M Brown matte<br>RAL 7012 Basalt grey<br>RAL 7021 Black grey<br>DB 702 Pearl light grey<br>DB 703 Pearl dark grey<br>Other RAL colours upon request* |                                                                                                  |                                                                                                   |                                                                                                   |                                                                                                     |                                                                                                   |

\* for box 90x90, 110x110, 150x150

\*\* for box 110x110, 150x150 (for hadnlel, for motor)



## Specification (for handle)

|                       | Box                                                                                                                                                                                                                                                                                       |                                                                                   | Bottom rail                                                                       | Bottom rail                                                                       | Side guidance                                                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                       | square                                                                                                                                                                                                                                                                                    | rounded                                                                           | high                                                                              | high                                                                              | guide rail                                                                        |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| <b>Abbreviation</b>   | <b>BOX for SCREEN ALFA</b>                                                                                                                                                                                                                                                                |                                                                                   | ZPA012                                                                            | ZPH182                                                                            | ZPH152                                                                            | ZPH153                                                                             | ZPH154                                                                              | ZPH156                                                                              | ZPH155                                                                              |
| <b>Dimension (mm)</b> | 90x90<br>110x110<br>150 x 150                                                                                                                                                                                                                                                             | 90x90<br>110x110<br>150 x 150                                                     | 18x50**                                                                           | 27x36***                                                                          | 30x55                                                                             | 20x55                                                                              | 40x55                                                                               | 30x110                                                                              | 20x110                                                                              |
| <b>Material</b>       | Al                                                                                                                                                                                                                                                                                        | Al                                                                                | Al                                                                                | Al                                                                                | Al                                                                                | Al                                                                                 | Al                                                                                  | Al                                                                                  | Al                                                                                  |
|                       |                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |
|                       |                                                                                                                                                                                                                                                                                           |                                                                                   |                                                                                   |                                                                                   | type 829                                                                          | type 820                                                                           | type 828                                                                            | type 855                                                                            | type 856                                                                            |
| <b>Colors</b>         | Standard:<br>RAL 9006 White aluminium<br>RAL 9007 Grey aluminium<br>RAL 9010 Pure white<br>RAL 7016 Anthracite grey<br>RAL 7016S Anthracite grey structured<br>RAL 8014 Sepia brown<br>RAL 7012 Basalt grey<br>RAL 7021 Black grey<br>DB 703<br>DB 702<br>Other RAL colours upon request* |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |

\*out of the plastic parts

\*\* for box 90x90,110x110,150x150

\*\*\* only for box 110x110,150x150 (for handle, for motor)

## 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).

## Common phenomena of technical fabrics

The fabric may curl around the welds or in the middle of the fabric, it is the so-called tree effect. This phenomenon is common because different forces act on the fabric during use. Another phenomenon may be visible bruises on the fabric caused by the roller. These disappear at higher temperatures when the fabric levels.

## Common phenomena for the self-supporting Alfa-ZIP screen roller shutter

The self-supporting version of the roller shutter does not use a mounting profile or a „wall-ceiling“ bracket, and therefore there is a natural slight deflection of the box in the width of the roller shutter. This deflection creates an optical gap between the upper edge of the box and the soffit, where the self-supporting screen is mounted.

## Standard dimensions for box 90

| Control                | Width (mm) |        | Height (mm) |       | Guaranteed area (m <sup>2</sup> ) |
|------------------------|------------|--------|-------------|-------|-----------------------------------|
|                        | min.       | max.   | min.        | max.  | max.                              |
| <b>handle</b>          | 400        | 3200** | 400         | 2500* | 8                                 |
| <b>motor RTS,iO,WT</b> | 795        | 3200** | 400         | 2500* | 8                                 |

\* Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 1800 mm

\*\* For the self-supporting Alfa-ZIP screen roller shutter, the maximum width is 1500 mm.

## Standard dimensions for box 110

| Control                | Width (mm) |        | Height (mm) |           | Guaranteed area (m <sup>2</sup> ) |
|------------------------|------------|--------|-------------|-----------|-----------------------------------|
|                        | min.       | max.   | min.        | max.      | max.                              |
| <b>handle</b>          | 400        | 3900** | 400         | 3500*, ** | 8                                 |
| <b>motor RTS,iO,WT</b> | 795        | 4200** | 400         | 3500*, ** | 15                                |

\* Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 2600 mm

\*\* For the Alfa-ZIP self-supporting roller shutter, the maximum width is 3500 mm and the maximum height is 3000 mm.

## Standard dimensions for box 150

| Control           | Width (mm) |      | Height (mm) |       | Guaranteed area (m <sup>2</sup> ) |
|-------------------|------------|------|-------------|-------|-----------------------------------|
|                   | min.       | max. | min.        | max.  |                                   |
| handle            | 400        | 3000 | 400         | 5000* | 12                                |
| motor RTS, iO, WT | 795        | 6000 | 400         | 5000* | 18                                |

NOTE: Cannot be used for a self-supporting screen roller shutter Alfa150.

\* Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 4500 mm

### SCREEN ALFA-ZIP (2-01576-0110)

| position | item name                                       | business name | drawing number                         |
|----------|-------------------------------------------------|---------------|----------------------------------------|
| 10       | Split profiles – SCREEN ALFA – ZIP              |               | see Split profiles - SCREEN ALFA - ZIP |
| 20       | BOX for SCREEN ALFA 110 – QUARTER-ROUND         |               | see BOX for SCREEN ALFA 110            |
| 20       | BOX for SCREEN ALFA 110 – SQUARE                |               | see BOX for SCREEN ALFA 110            |
| 30-31    | SPLIT fabric (m2) for SCREEN                    |               | see SCREEN pattern chart               |
| 500      | Motors (SOMFY, GEIGER, BECKER) SCREEN SC700/800 |               | see Motors SCREEN ALFA                 |
| 530      | Standard accessories (Solar)                    |               | see Solar for SCREEN                   |
| 900-910  | Guiding – ALFA rail – LEFT/RIGHT                |               | see Guiding – rail – left/right        |

### Split profiles – SCREEN ALFA – ZIP (3-03571-PU11)

| position | item name                                                | business name | drawing number |
|----------|----------------------------------------------------------|---------------|----------------|
| 10/50    | Profile of bottom slat – ALFA - LEFT BLACK               | ZPH093/1      | 3-03657-9004   |
| 10/70    | Safety lock of bottom slat end piece ALFA – LEFT BLACK   | ZPH092/1      | 3-03659-9004   |
| 10/10    | Bottom profile Alfa                                      | ZPA012        | 7-303495-0000  |
| 10/10    | Bottom profile -SC 1000                                  | ZPH182        | 6-015158-0000  |
| 10/30    | Plastic bar 3,0 mm PVC                                   | ZP0097/0003   | 6-016911-0003  |
| 10/40    | Bottom slat seal ALFA                                    | ZPH116/1      | 7-303664-0000  |
| 10/30    | Profile of bottom slat weight dia. 8 mm – Fe/Zn          | ZPH077        | 6-013966-0000  |
| 10/40    | Profile of bottom slat weight 20x12 mm – Fe/Zn           | ZPH076        | 6-013971-0000  |
| 10/50    | Profile of bottom slat weight dia. 8 mm – Fe/Zn          | ZPH077        | 6-013966-0000  |
| 10/60    | Profile of bottom slat weight 20x12 mm – Fe/Zn           | ZPH076        | 6-013971-0000  |
| 10/70    | Safety lock of bottom slat SC800 – RIGHT BLACK           | ZPH091        | 6-013963-9004  |
| 10/80    | Safety lock of bottom slat end piece SC800 – RIGHT BLACK | ZPH097        | 6-013965-9004  |

### BOX for SCREEN ALFA-ZIP - 110 (2-01578-PU11 square / 2-01579-PU11 quarter-round)

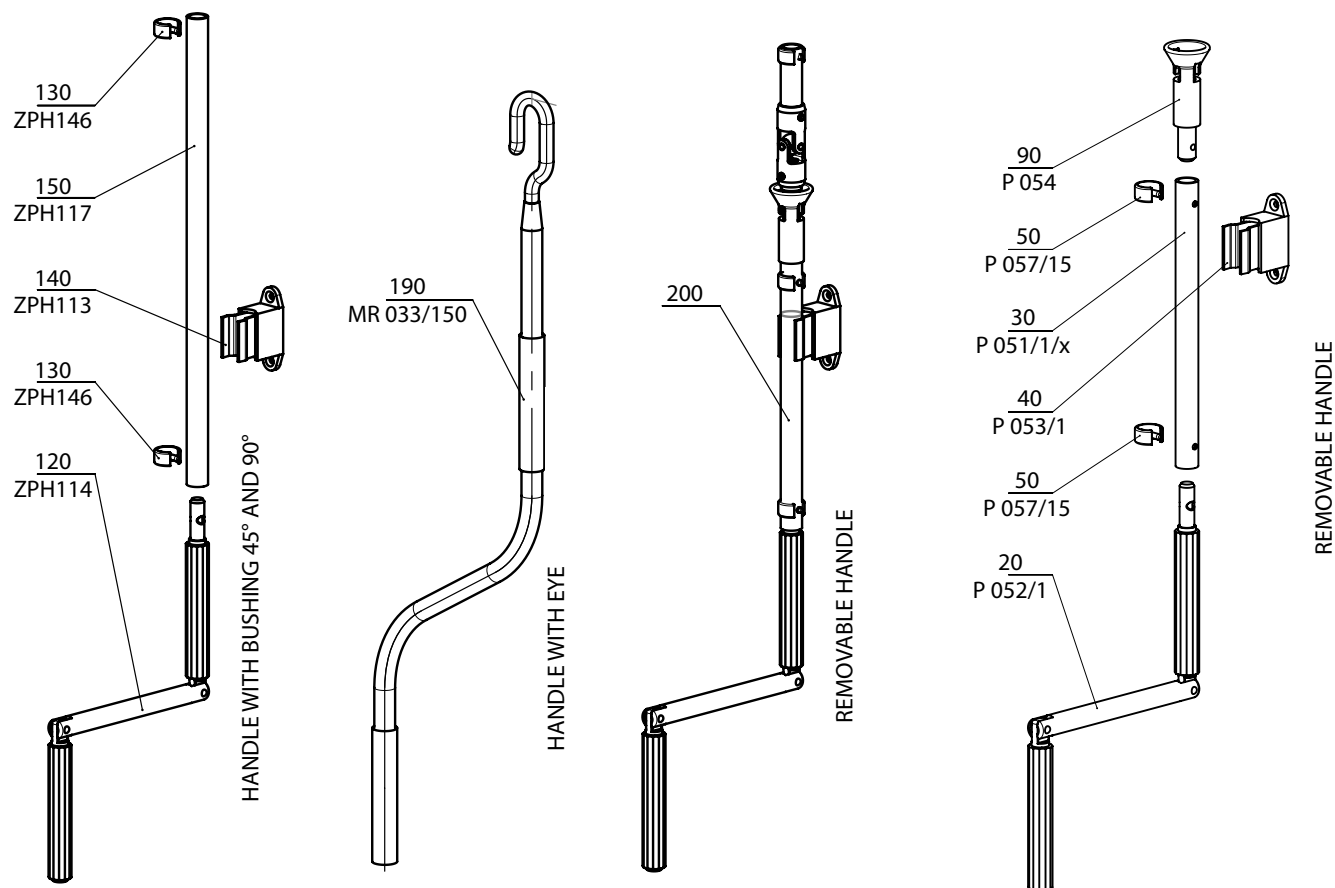
| position | item name                                   | business name | drawing number |
|----------|---------------------------------------------|---------------|----------------|
| 20/1     | Profile – holder Alfa 110 Pergola           | ZPA011/110P/1 | 7-303888-0000  |
| 20/10    | Profile – box Alfa 110 rear                 | ZPA010/110Z   | 7-303491-0000  |
| 20/20    | Profile – box Alfa 110 front, quarter-round | ZPA010/110C   | 7-303480-0000  |
| 20/20    | Profile – box Alfa 110 front, square        | ZPA010/110H   | 7-303479-0000  |
| 20/30    | Side piece 110 Alfa H1-1 P N                | ZPA001/110P/3 | 3-04130-0000   |
| 20/30    | Side piece 110 Alfa H1-1 L N                | ZPA001/110L/3 | 3-04131-0000   |
| 20/31    | Side piece 110 Alfa K1-1 P N                | ZPA003/110P/3 | 3-04132-0000   |
| 20/31    | Side piece 110 Alfa K1-1 L N                | ZPA003/110L/3 | 3-04133-0000   |
| 20/40    | Side piece 110 Alfa H1 L N                  | ZPA001/110L/1 | 7-304064-0000  |
| 20/40    | Side piece 110 Alfa H2 P N                  | ZPA002/110P/1 | 7-304065-0000  |
| 20/41    | Side piece 110 Alfa H2 L N                  | ZPA002/110L/1 | 7-304066-0000  |
| 20/41    | Side piece 110 Alfa K2 P N                  | ZPA004/110P/1 | 7-304069-0000  |
| 20/41    | Side piece 110 Alfa K2 L N                  | ZPA004/110L/1 | 7-304070-0000  |
| 20/50    | Roller tube SC700 / 800 Al dia. 55 mm – 6 m | ZPH123        | 6-014027-0000  |
| 20/50    | Roller tube SC700 / 800 Al dia. 67 mm – 6 m | ZPH124        | 6-013982-0000  |
| 20/50    | Roller tube dia. 85x1, 20 mm – 6 m          | ZPA020        | 6-016860-0000  |
| 20/60    | Tape for fabric guiding - ALFA              | ZPH115-1      | 7-303663-0000  |
| 20/80-83 | Holder Alfa 110 wall–ceiling                | ZPA011/110    | 3-03496-0000   |
| 20/90-93 | Safety lock – wall–ceiling                  | ZPA009        | 3-03483-0000   |
| 20/110   | End piece of shaft dia. 85 mm – through     | ZPA008/1      | 3-04003-9004   |
| 20/111   | Insert for shaft end piece – dia. 50 mm     | ZPA017        | 3-03486-9004   |
| 20/120   | Pin of roller tube cap - 12mm Fe/Zn         | ZPH129        | 6-013985-0000  |
| 20/130   | Thin-walled Al profile - U, 10x10x1,5       | ZPA013        | 6-011349-0000  |

### Guiding – ALFA rail – LEFT/RIGHT (2-01580-PU11L/2-01580-PU11P)

| position | item name                      | business name | drawing number |
|----------|--------------------------------|---------------|----------------|
| 900/20   | End piece VL - 40 mm           | ZPH095/1      | 3-03667-9004   |
| 900/30   | Spring of guide rail ZIP SC800 | ZPH147/1      | 7-303662-0000  |
| 900/40   | Clip of guide rail SC800       | ZPH099        | 6-013993-0000  |
| 900/50   | Guide profile SC800 for zip v3 | ZPH145        | 6-014155-0000  |

## SCREEN ALFA-ZIP

### Control - handle



2-01372-XXXX-0

2-01436-XXXX-A

#### Control handle - SCREEN ALFA-ZIP (2-01372-XXXX\_0)

| position | item name                       | business name | drawing number |
|----------|---------------------------------|---------------|----------------|
| 120      | Cranked handle                  | ZPH114        | 6-014323-0000  |
| 130      | Locking ring with pin           | ZPH146        | 6-014451-0000  |
| 140      | Handle holder                   | ZPH113        | 6-014319-0000  |
| 150      | Connecting tube PVC – dia 12 mm | ZPH117        | 6-014324-0000  |
| 190      | Handle for awnings 1500 mm      | MR 033/150    | 6-011095-1500  |
| 200      | Handle removable for SCREEN     |               | 2-01436-0000   |

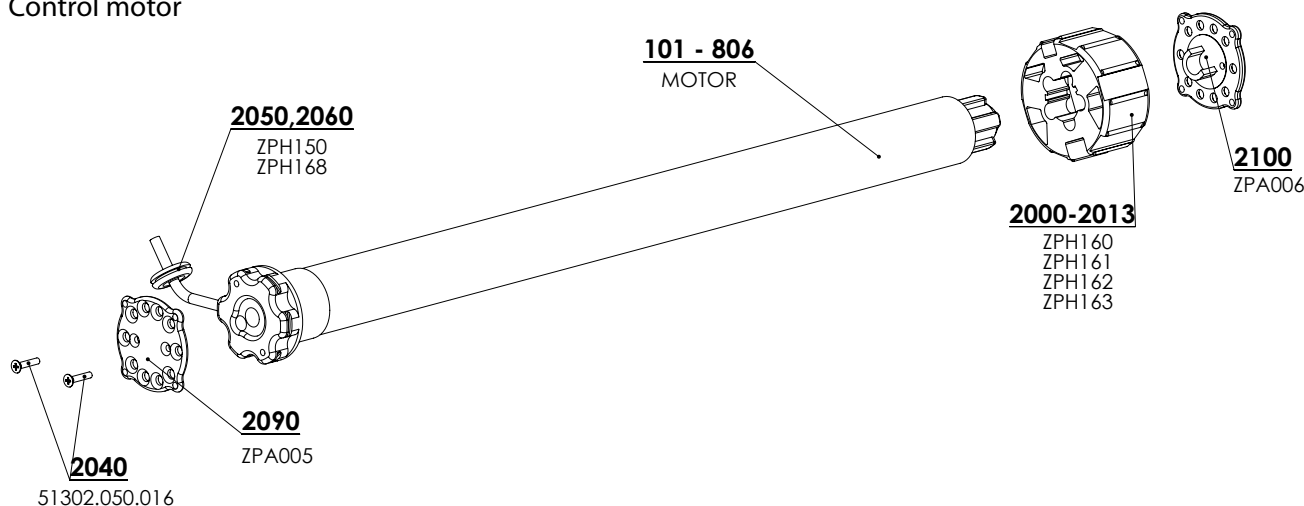
#### Handle removable for SCREEN ALFA-ZIP (2-01436-XXXX\_0)

| position | item name                           | business name | drawing number |
|----------|-------------------------------------|---------------|----------------|
| 20       | Cranked handle Al – dia 12 mm grey  | P 052/1       | 6-006682-0000  |
| 30       | Connecting tube Al – dia 15 mm elox | P 051/1/X     | 7-301797-PU52  |
| 40       | Handle holder– universal grey       | P 053/1       | 6-006683-7045  |
| 50       | Locking ring with pin 15 mm grey    | P 057/15      | 6-006467-7035  |
| 90       | Handle funnel square                | P 054         | 6-001190-0000  |



## SCREEN ALFA-ZIP

Control motor



### Motors (SOMFY) Screen ALFA90/ALFA-ZIP (2-00530-0002)

| position | item name                                        | business name | drawing number |
|----------|--------------------------------------------------|---------------|----------------|
| 101-103  | Motor ALTUS 50 RTS                               | MR 091/06     | 6-011170-xxxx  |
| 201-203  | Motor Sunea 50 Screen io                         | ZP0084        | 6-012559-xxxx  |
| 301-303  | Motor MAESTRIA +50 IO                            | ZP0084/1      | 6-012538-xxxx  |
| 401-403  | Maestria +50 WT                                  | ZP0093/06     | 6-015258-0617  |
| 2040     | Screw 4.8x19 DIN 7982, countersunk, Philips head | 51302.050.016 | 6-013928-0000  |
| 2050     | Cable grommet RUBBER dia. 7                      | ZPH150        | 6-014339-0000  |
| 2060     | Cable collar 300x4.8 – BLACK                     | ZPH168        | 6-014438-0000  |
| 2090     | Bearing plate – flat                             | ZPA005        | 3-03484-9004   |
| 2100     | Bearing plate with clip                          | ZPA006        | 3-03485-9004   |
| 2110     | Carrier DS 85 Imbac                              | ZPA014        | 6-015621-0000  |

### Motors (Geiger) Screen ALFA-ZIP (2-00530-0002)

| position | item name                                              | business name | drawing number |
|----------|--------------------------------------------------------|---------------|----------------|
| 10       | Motor Geiger Solid Line Zip AIR 6/16                   | PR0790/06     | 6-015903-0006  |
| 11       | Motor Geiger Solid Line Zip AIR 10/16                  | PR0790/10     | 6-015903-0010  |
| 12       | Motor Geiger Solid Line Zip AIR 20/16                  | PR0790/20     | 6-015903-0020  |
| 70       | Carrier SOLID line AIR – dia. 95                       | ZPA015/95     | 6-015904-0095  |
| 70       | Carrier SOLID line AIR – dia. 78                       | ZPA015/78     | 6-015904-0078  |
| 70       | Carrier SOLID line AIR – dia. 85                       | ZPA015/85     | 6-015904-0085  |
| 200      | Cable grommet RUBBER dia. 7                            | ZPH150        | 6-014339-0000  |
| 320      | Screw 4.8x19 DIN 7982 C-H A2 countersunk, Philips head |               | 6-013928-0000  |
| 330      | Cable collar 300x4.8 – BLACK                           | ZPH168        | 6-014438-0000  |
| 340      | Screw 3.5x19 DIN 7982 C-H A2 countersunk, Philips head |               | 6-014439-0000  |
| 350      | Bolt M6x10 DIN 965-H, A2, countersunk, Philips head    |               | 6-014497-0000  |
| 400      | Bearing plate – flat                                   | ZPA005        | 3-03484-9004   |
| 410      | Bearing plate with clip                                | ZPA006        | 3-03485-9004   |

### Motors (Becker) Screen ALFA-ZIP (6-015258 / 6-012538 / 6-002624 / 6-014483)

| position | item name                           | business name  | drawing number |
|----------|-------------------------------------|----------------|----------------|
| 500      | Motor BECKER 50 E 08/17             | X.2010/1301590 | 6-017861-0008  |
| 500      | Motor BECKER 50 E 12/17             | X.2010/1301600 | 6-017861-0012  |
| 500      | Motor BECKER 50 E 20/17             | X.2010/1301450 | 6-017861-0020  |
| 500      | Motor BECKER 50 Screen C 08/17 PLUS | X.2010/1302170 | 6-018761-0008  |
| 500      | Motor BECKER 50 Screen C 12/17 PLUS | X.2010/1302180 | 6-018761-0012  |
| 500      | Motor BECKER 50 Screen C 20/17 PLUS | X.2020/1301860 | 6-018761-0020  |

\*Note: E=electronic motor / C=radio motor

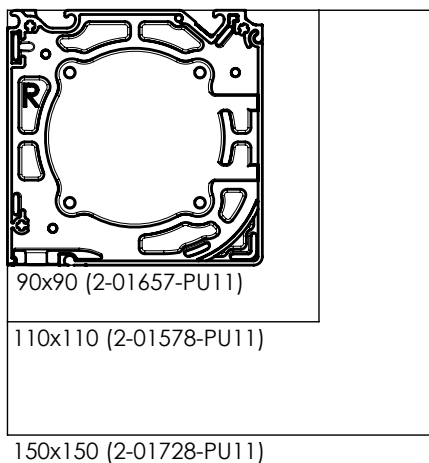
### Motors ( ISOTRA BASIC) Screen ALFA-ZIP-BOX 110

| position | item name                                                     | business name | drawing number |
|----------|---------------------------------------------------------------|---------------|----------------|
| 600      | Motor ISOTRA BASIC, 10Nm/17,with integrated receiver, SC zip  | X.AM45 10/17S | 6-019173-0010  |
| 600      | Motor ISOTRA BASIC, 15Nm/17,with integrated receiver, SC zip  | X.AM45 15/17S | 6-019173-0015  |
| 600      | Motor ISOTRA BASIC, 20Nm/17, with integrated receiver, SC zip | X.AM45 20/17S | 6-019173-0020  |

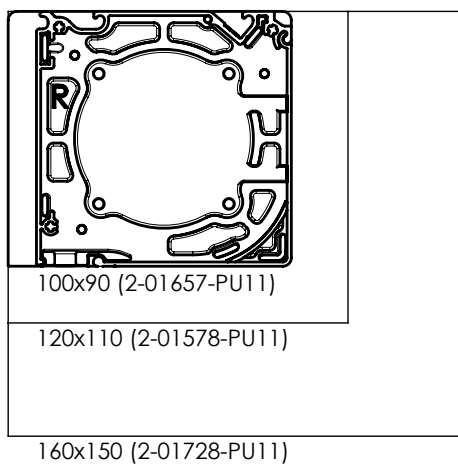
## SCREEN ALFA-ZIP

### Technical specification

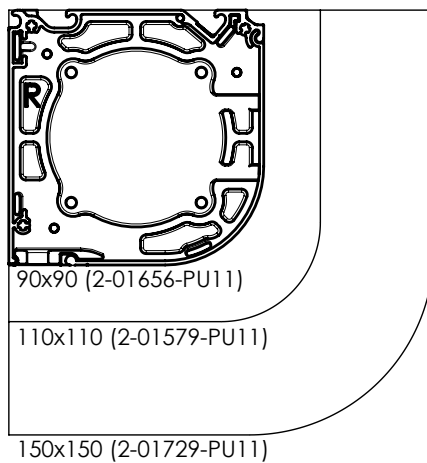
#### Upper profile – square



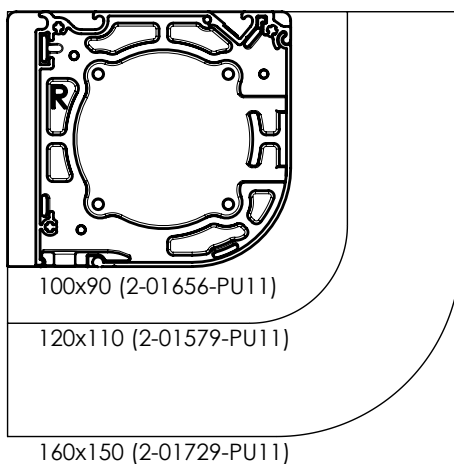
**Upper profile – square – with wider side piece**  
- cannot be used for a self-supporting screen roller shutter



#### Upper profile – quarter-round



**Upper profile – quarter-round – with wider side piece**  
- cannot be used for a self-supporting screen roller shutter

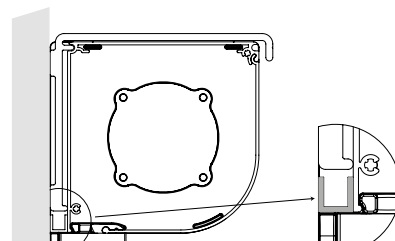


#### Rear parts of the box

##### U-section – horizontal

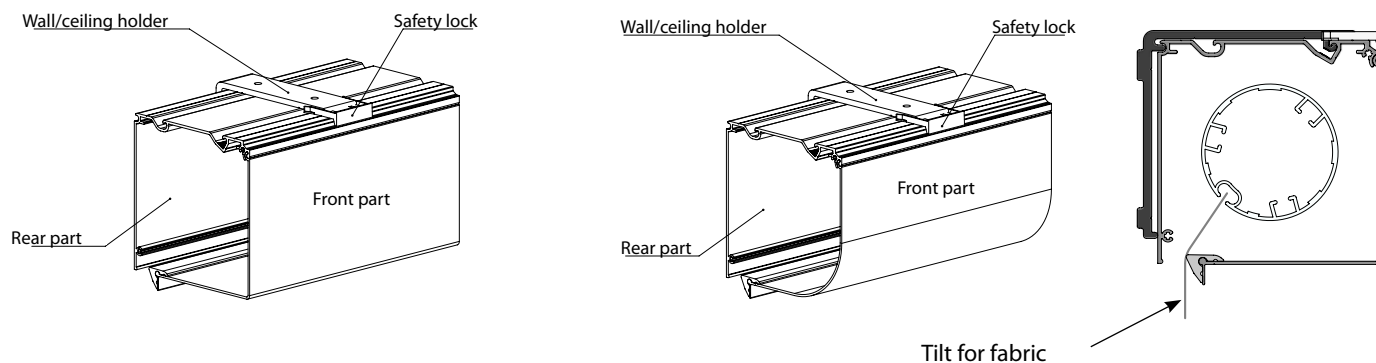
The gap between the box and the wall can be filled horizontally by a U-section having the dimensions of  $10 \times 10 \times 10$  mm, where the length is determined by the box width.

Use: for guide rails A839 and A829



U-profile width - horizontal

## Wall/ceiling holder



**Material:** extruded aluminium with powder coating finish

For the installation of all sizes of the upper profile independent of the guide rails:

### Standard number of wall/ceiling holders:

| Width [mm]  | "Standard number of wall / ceiling brackets (box 90, 110, 150)" |
|-------------|-----------------------------------------------------------------|
| 0 - 1500    | 2 pcs                                                           |
| 1501 - 3000 | 3 pcs                                                           |
| 3001 - 4500 | 4 pcs                                                           |
| 4501 - 6000 | 5 pcs                                                           |

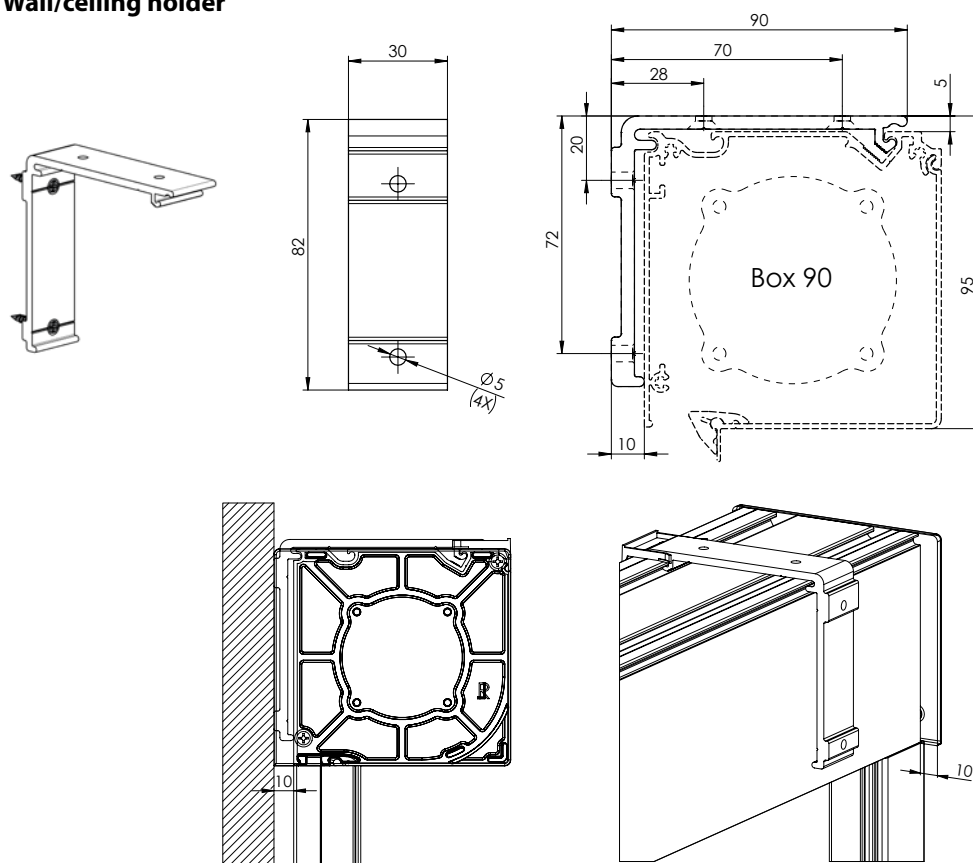
For the self-supporting screen roller shutter - if the limit dimensions  $W_{MAX}$  and  $H_{MAX}$  are not met, no mounting profile or wall-ceiling brackets will be supplied.

If the mounting bracket is used, we recommend using guide rails of types A829, A839, A828, A838, A837, A865 a A855.

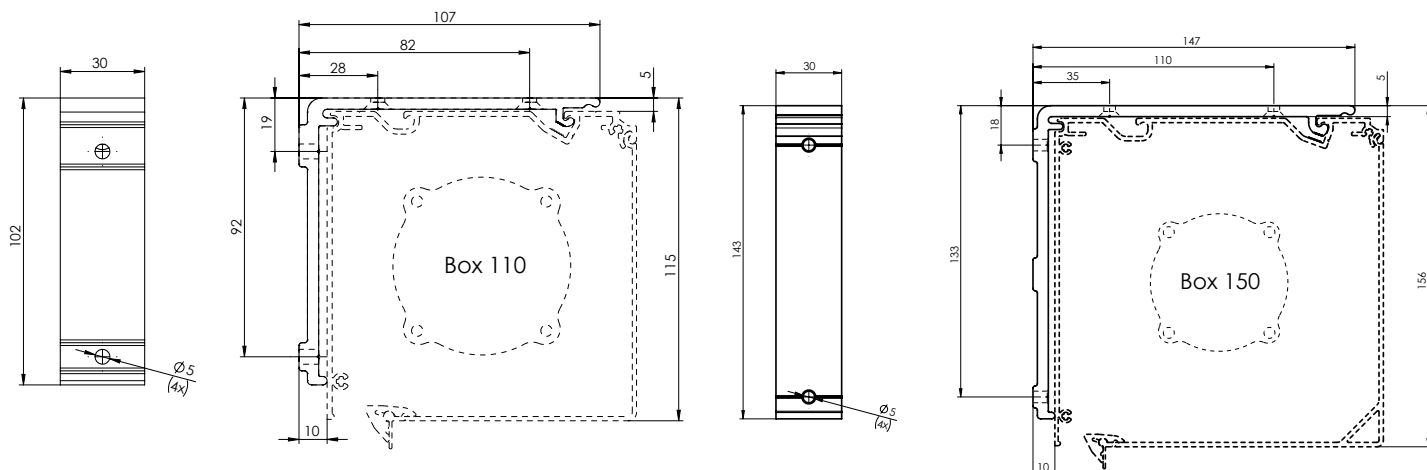
**Wall/ceiling holder width:** 30 mm

Shifts the rear side of the upper profile as well as guide rail holders by 10 mm to the front.

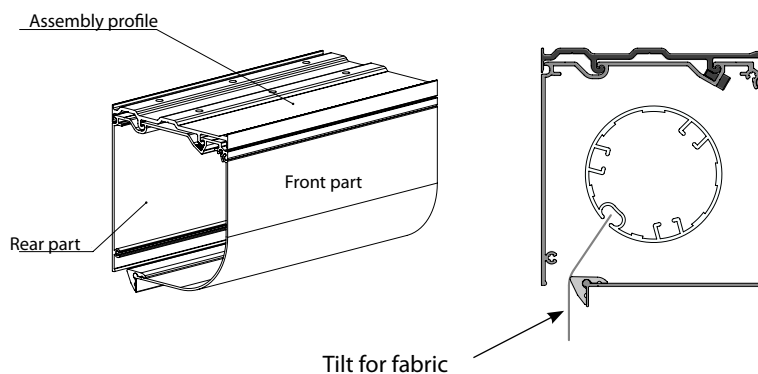
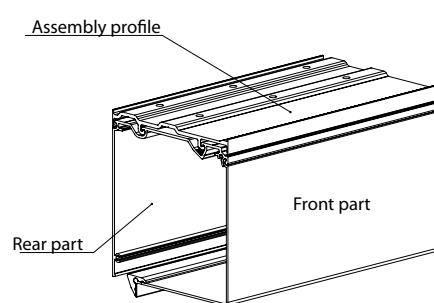
## Wall/ceiling holder



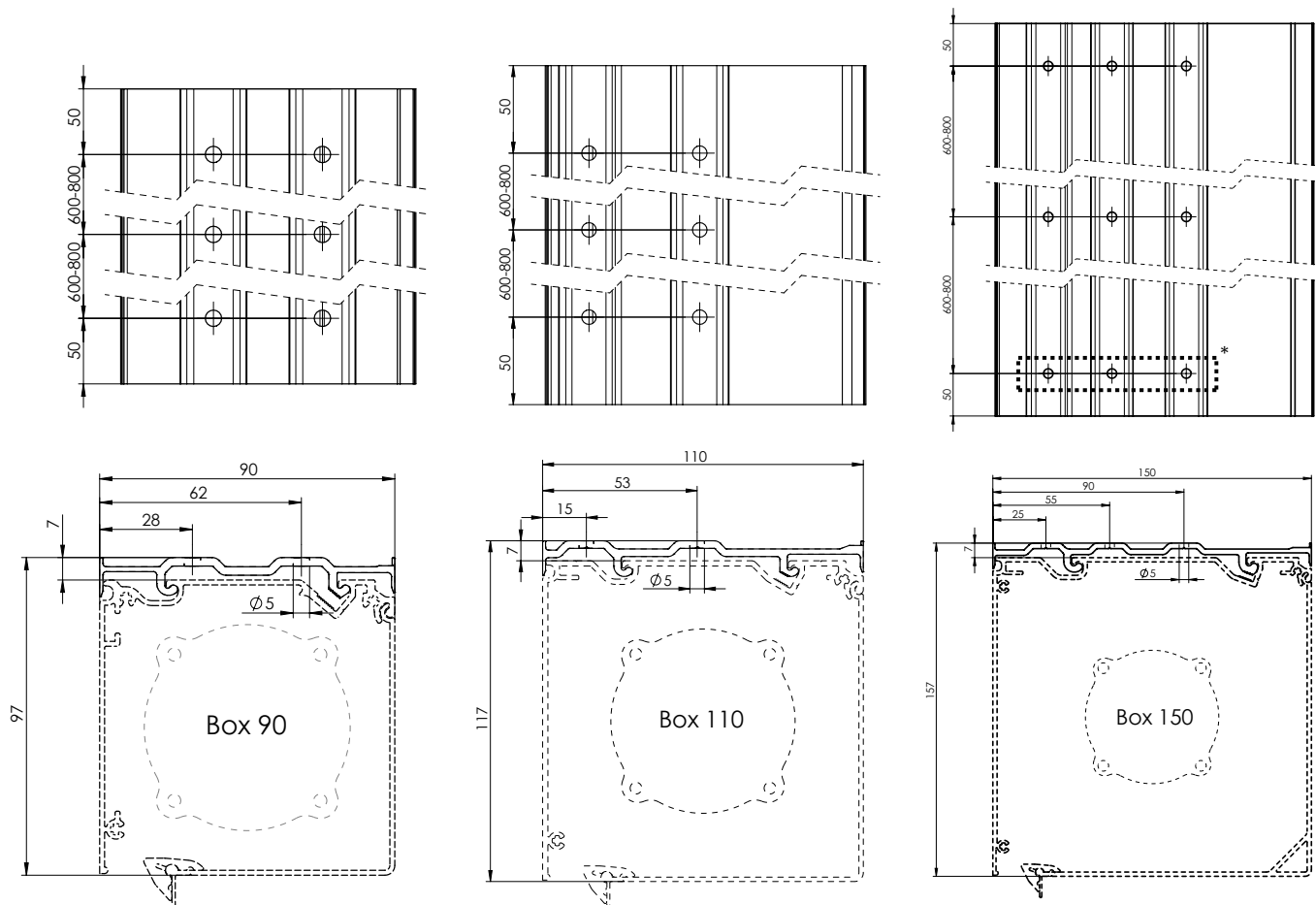
rebound 10 mm for ALFU  
when using wall/ceiling holder  
for all sizes



### Holder for pergola (assembly profile)

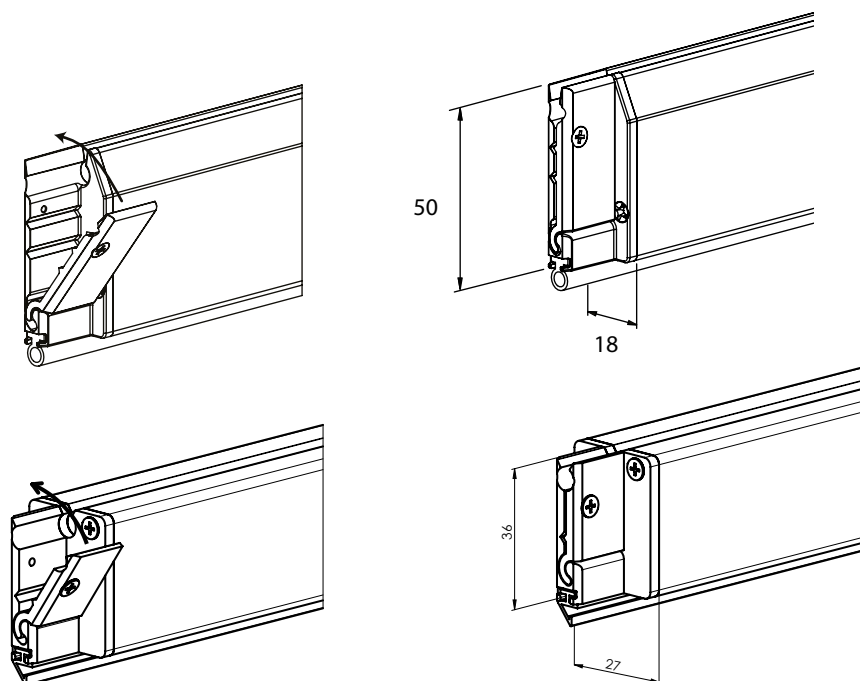


### Holder for pergola (assembly profile) Recommended opening distance.





**Bottom profile, large**  
(7-303495-0000)



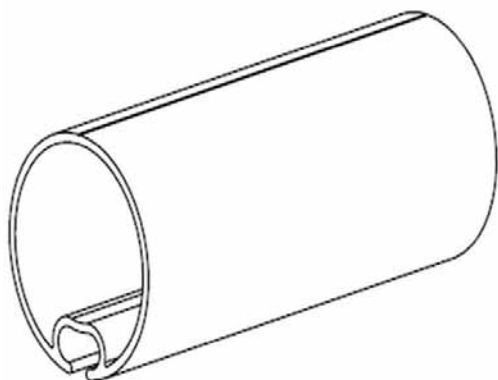
**Material: extruded aluminium profiles:**

- with powder coating finish
- with an area for the weighting strip
- with a fabric groove
- with a sealing rubber groove

The fabric is attached to the bottom slat by a plastic rod  $\varnothing$  3 mm.

Sliding blocks - side covers for good attachment of the fabric

**Roller tube, dia. 55 mm – 6 m, dia. 67 – 6m, dia. 85 mm – 6 m, pr. 100 mm - 6m**  
(6-014027-0000, 7-303497-0000, 6-016860-0000, 6-018526-00006)



Material: extruded aluminium for tubes  $\varnothing$  55mm and  $\varnothing$  67mm and galvanised steel for tubes  $\varnothing$  85 mm a  $\varnothing$  100 mm.

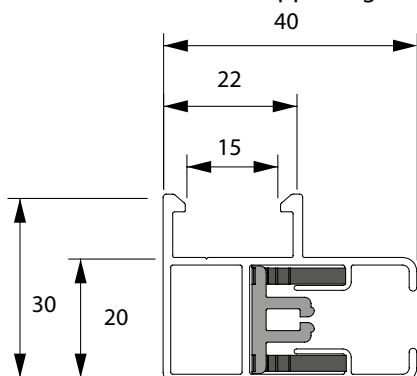
With a fabric groove for attaching the fabric using a plastic rod  $\varnothing$  4 mm for tube  $\varnothing$  55mm and  $\varnothing$  67mm and using a plastic rod  $\varnothing$  6 mm for tubes  $\varnothing$  85 mm a  $\varnothing$  100 mm.

## Guide rails for motor

**Material:** extruded aluminium with powder coating finish

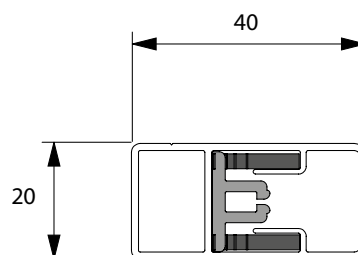
### Guide rail A839 (7-303494)

- standard guide for attachment clips or small distances relative to the side (10 mm).
- cannot be used for a self-supporting screen roller shutter



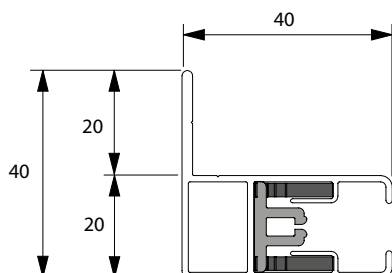
### Guide rail A830 (7-303492)

- flat guide rails without attachment clips.



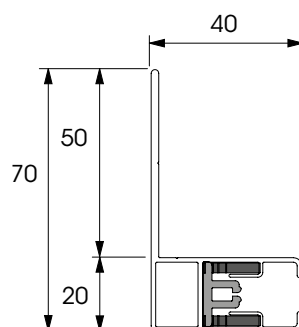
### Guide rail A838 (7-303493)

- guide rail with a short mounting flange.



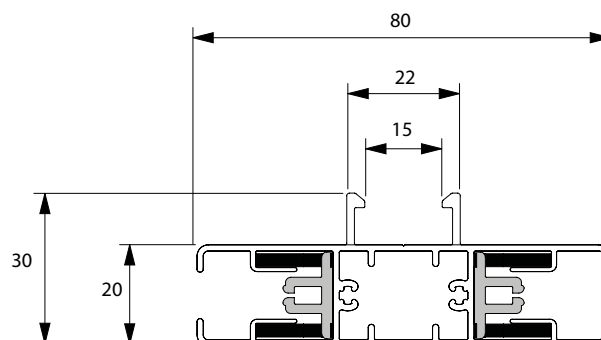
### Guide rail A837 (6-018856)

- guide rail with a long mounting flange.



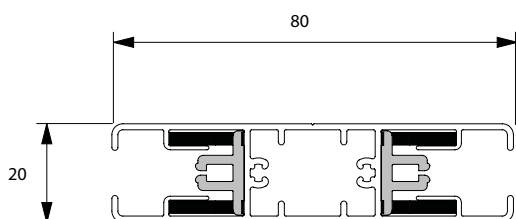
### Guide rail A865 (6-014420)

- auxiliary guide rail.
- cannot be used for a self-supporting screen roller shutter



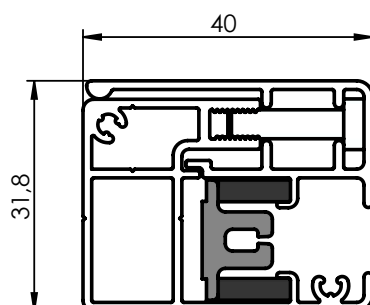
### Guide rail A866 (6-014421)

- auxiliary guide rail.



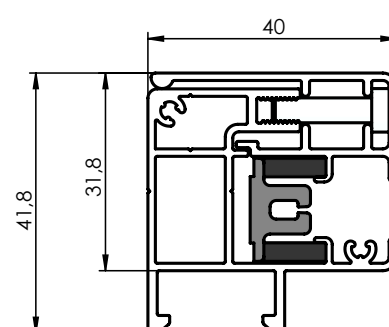
### Guide rail A840-1A840-1

- (7-304469-0000 + 7-304468-0000)
- folded guide rail, not for crank
- not suitable for mounting on a frame in combination with a wall/ceiling holder



### Guide rail A849 (7-304470-0000 + 7-304468-0000)

- folded guide rail, not for crank
- eliminates the 10 mm gap when using the wall-ceiling bracket, can be used in combination with mounting blocks

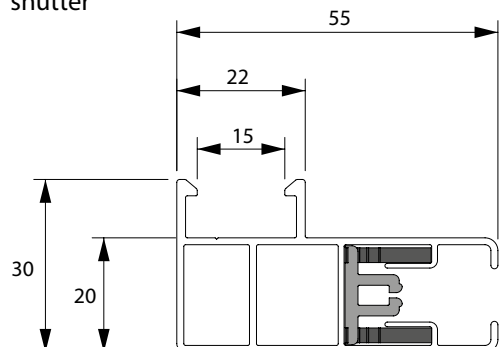


## Guide rails for crank

**Material:** extruded aluminium profiles with a powder coated finish

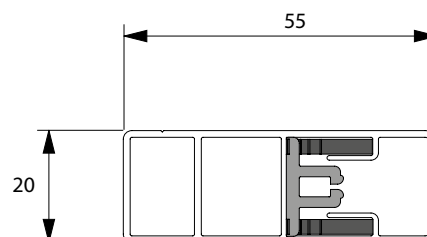
### Guide rail A829 (6-013989)

- standard guide for attachment clips or small distances relative to the side (10 mm).
- cannot be used for a self-supporting screen roller shutter



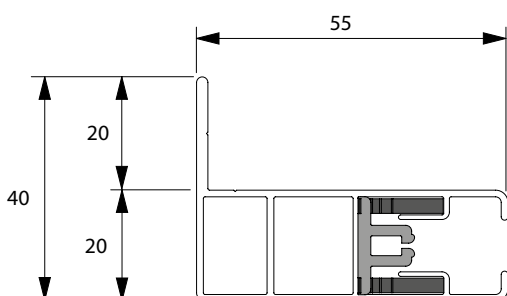
### Guide rail A820 (6-014152)

- flat guide rails without attachment clips.



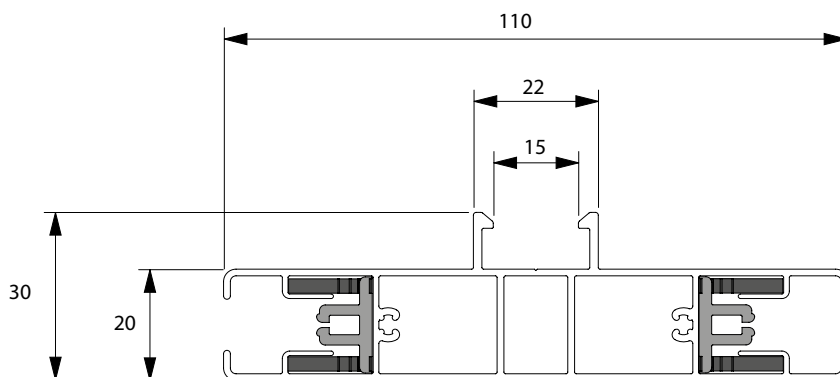
### Guide rail A828 (6-014153)

- guide rail with a short mounting flange.



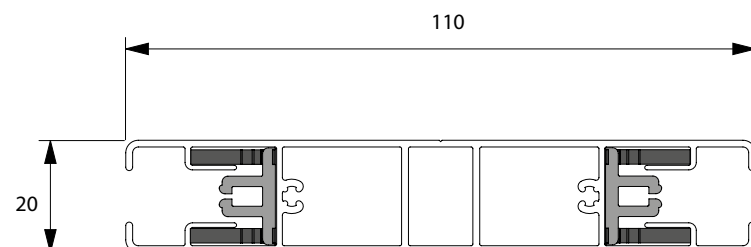
### Guide rail A855 (6-014827)

- auxiliary guide rail
- cannot be used for a self-supporting screen roller shutter



### Guide rail A856 (6-014154)

- auxiliary guide rail



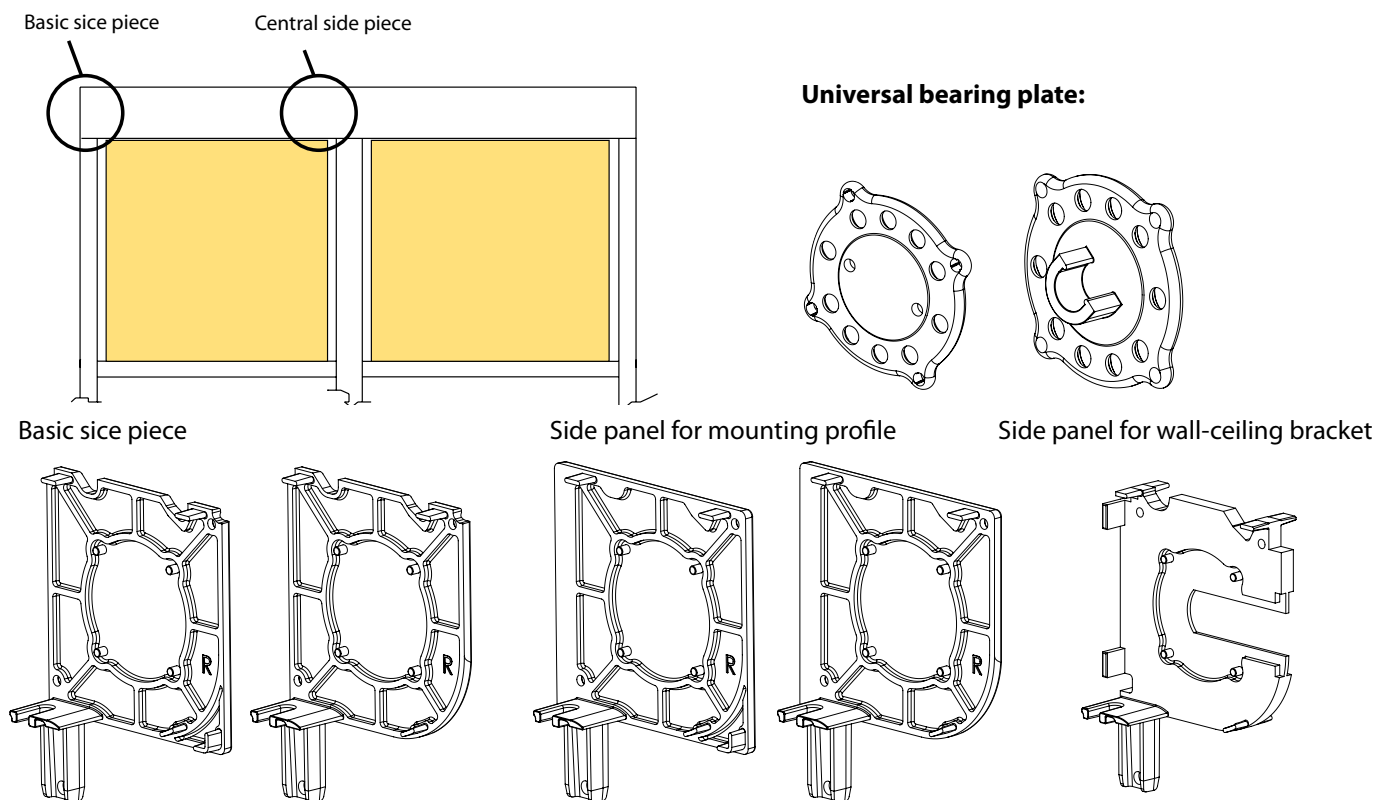
### Guide rails - frontway/sideway drilling (200 mm on both sides from the edges)

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| up to a height of 1500 mm       | 2 openings (on the edges)                                |
| more than 1500 mm up to 3000 mm | 3 openings (2 openings on the edges + 1 centre opening)  |
| from 3000 mm up to 4500 mm      | 4 openings (2 openings on the edges + 2 centre openings) |
| from 4500 mm                    | 5 openings (2 openings on the edges + 3 centre openings) |

**Side pieces:**

- Basic side piece:**
- aluminium side piece with pins – die cast,
  - aluminium side piece complete with universal bearing plates made from black synthetic material.

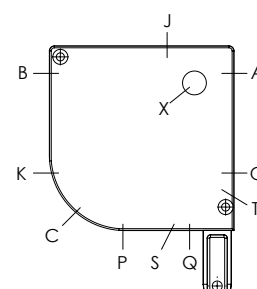
- Central side piece:**
- aluminium side piece with pins – die cast,
  - holds the bearing in coupled roller blinds, or the universal bearing plate.

**Location of controls – output**

| Type of installation | Control        | O  |     |     | A  |     |     | J  |     |     | T  |     |     | B  |     |     | K  |     |     |
|----------------------|----------------|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|
|                      |                | 90 | 110 | 150 | 90 | 110 | 150 | 90 | 110 | 150 | 90 | 110 | 150 | 90 | 110 | 150 | 90 | 110 | 150 |
| A-AE                 | Motor          | x  | x   | x   | x  | x   | x   | o  | x   | x   |    |     |     |    |     |     |    |     |     |
|                      | Crank 45°      |    |     |     |    |     |     |    |     |     | x  | x   | x   |    |     |     |    |     |     |
|                      | Crank 90°      | x  | x   | x   | x  | x   | x   |    |     |     |    |     |     |    |     |     |    |     |     |
|                      | Crank with eye |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| B-BE                 | Motor          |    |     |     |    |     |     | o  | x   |     |    |     |     | x  | x   |     | x  | x   |     |
|                      | Crank 45°      |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
|                      | Crank 90°      |    |     |     |    |     |     |    |     |     |    |     |     | x  | x   |     | x  | x   |     |
|                      | Crank with eye |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |

| Type of installation | Control        | P  |     |     | Q  |     |     | C  |     | S  |     |     | X  |     |     |
|----------------------|----------------|----|-----|-----|----|-----|-----|----|-----|----|-----|-----|----|-----|-----|
|                      |                | 90 | 110 | 150 | 90 | 110 | 150 | 90 | 110 | 90 | 110 | 150 | 90 | 110 | 150 |
| A-AE                 | Motor          |    |     |     |    |     |     |    | x   |    |     |     | x  | x   |     |
|                      | Crank 45°      |    |     |     |    |     |     |    |     |    |     |     |    |     |     |
|                      | Crank 90°      |    |     |     |    |     |     |    |     |    |     |     |    |     |     |
|                      | Crank with eye |    |     |     | o  | o   |     |    |     |    |     |     |    |     |     |
| B-BE                 | Motor          |    |     |     | o  | o   |     |    |     |    |     |     | x  | x   |     |
|                      | Crank 45°      |    |     |     |    |     |     | x  | x   |    |     |     |    |     |     |
|                      | Crank 90°      |    |     |     |    |     |     |    |     |    |     |     |    |     |     |
|                      | Crank with eye |    |     |     | o  | o   |     |    |     |    |     |     |    |     |     |

|   |                                                                              |
|---|------------------------------------------------------------------------------|
| x | Possible                                                                     |
| x | Only possible with square boxes                                              |
|   | Usage with gearbox with short eye                                            |
|   | Usage with gearbox with long eye                                             |
| J | To be installed to ceiling/head-sill or inside, because of water penetration |
| o | Not possible                                                                 |

**Operating outlets**

## Control – crank

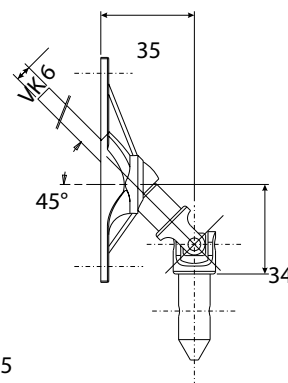
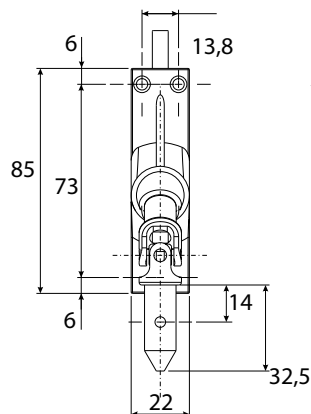
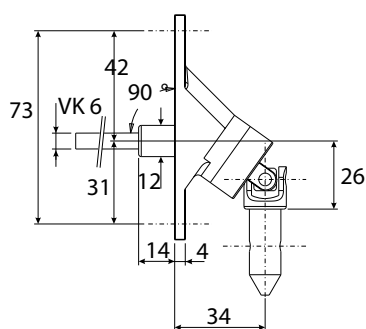
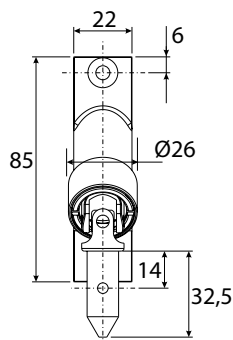
### Interior control

Standard:

- grey plasticised foldable crank,
- cardan joint – 90° or 45° or 0° (crank material: 6 mm square, 320 mm length),
- magnetic bracket securing the crank to the wall,
- the crank length depends on the screen height:  $L = H - 150$  mm (with 90° joint),  $L = H - 350$  mm (with 45° and 0° joint).

Options:

- detachable crank with a special coupling,
- without detachable crank, with a special coupling.



cardan joint 90°

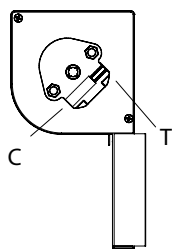
cardan joint 45°

Note: the hinged joint plate cannot be fixed directly to the box, more space around the box is therefore required.

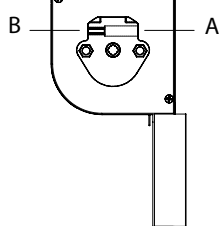
### Exterior operation

Standard: - Handle operation with eye, removable handle with laying hook; length 1500 mm  
 Option: - other handle lengths are possible at extra cost

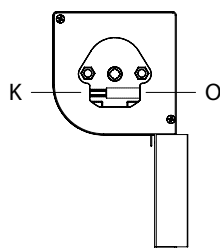
Attention: ensure sufficient space on the side ( $\pm 10$  mm) due to hook rotation in the eye.



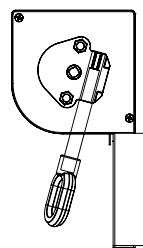
crank 45°  
outlet C - T



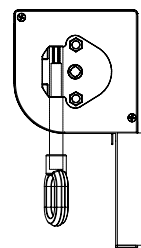
crank 90°  
outlet A - B



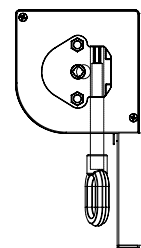
crank 90°  
outlet O - K



crank + eye  
outlet S



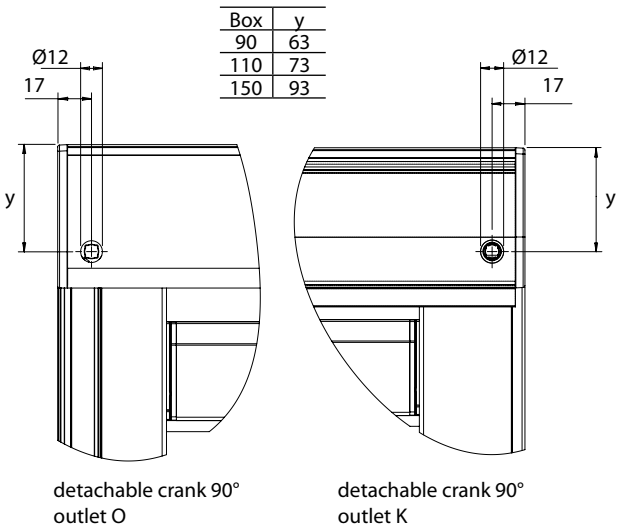
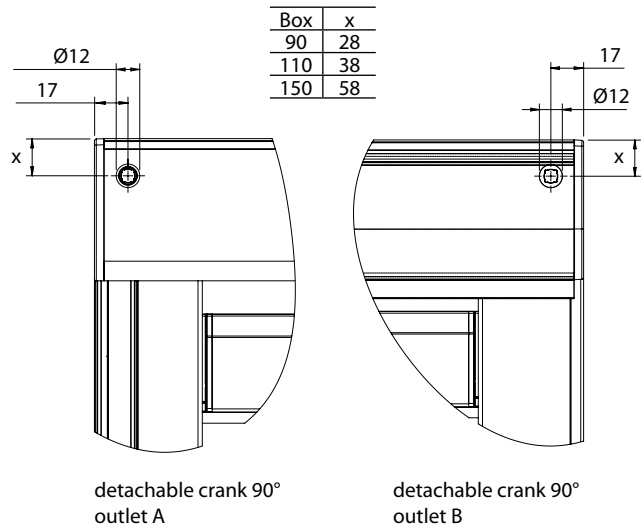
crank + eye  
outlet P



crank + eye  
outlet Q

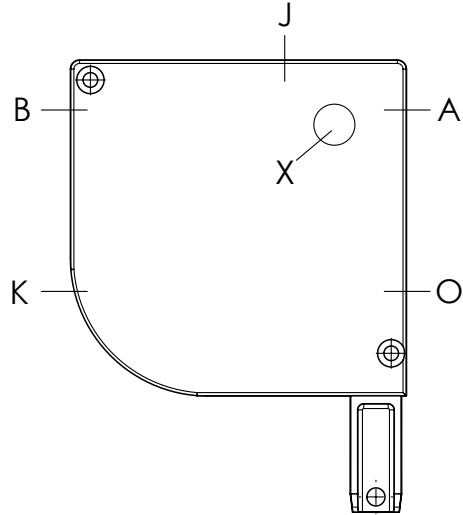


Operating outlets for crank through wall

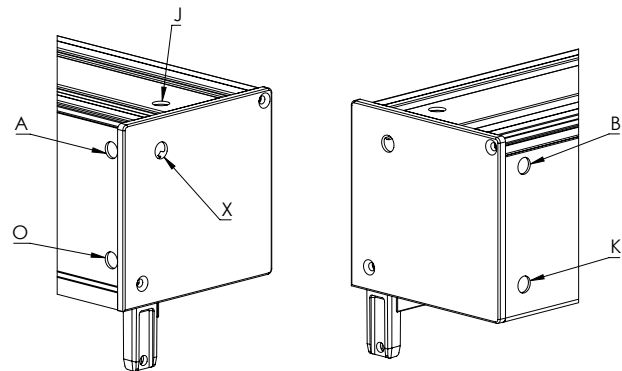
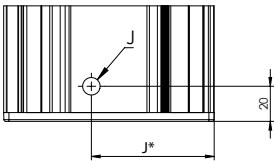
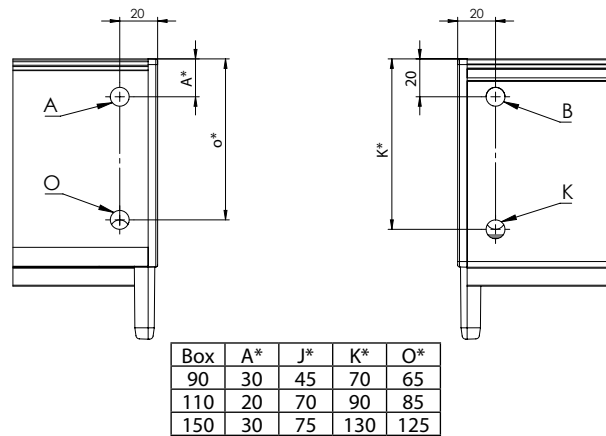


Control – motor

It is possible to choose the cable location



left, terminal X (from side piece) only for box 110, 150  
right, terminal X (from side piece) only for box 110, 150



## Screen roller blinds

It is possible to use one box for 2 or 3 screen roller blinds.

DVC: screens directly next to each other

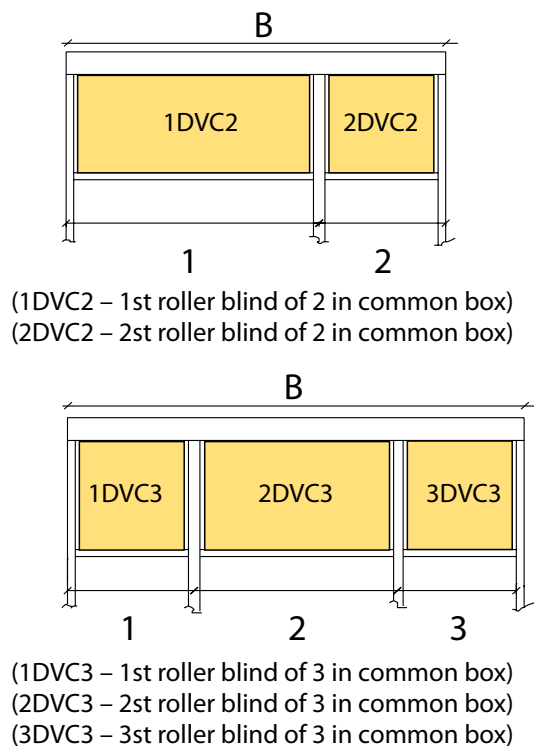
- with guide rails in the middle: A865/A866 - for motor  
A855/A856 - for handle

Possible with 1, 2, or 3 controllers.

- The minimum width of a single screen roller blind depends on the type of control.
- The maximum overall width depends on the type of control.
- Crank and electrical operation can be coupled up to 6 m.
- Central control is possible with multiple controllers.
- It is recommended to place the operating unit to the largest screen when possible.

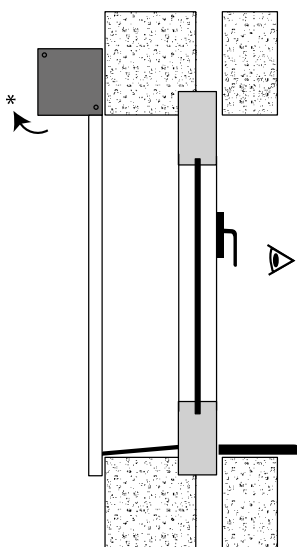
It is not possible to use any coupled version for the ALFA90 with handle control and for the ALFA150 (handle, motor).

The coupled version cannot be used for self-supporting screen roller shutters.

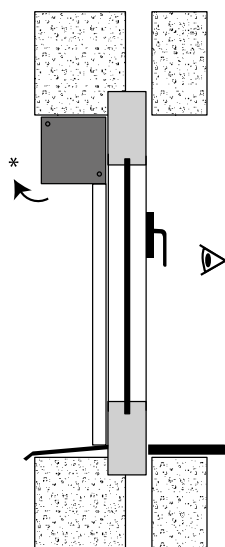


## Types of installation

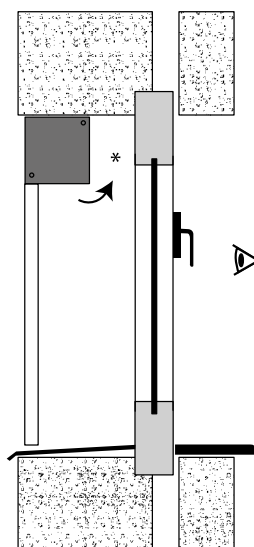
### Type A-AE (on the wall)



### Type A-AE (into the reveal)



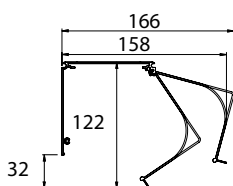
### Type B-BE (into the reveal) \*



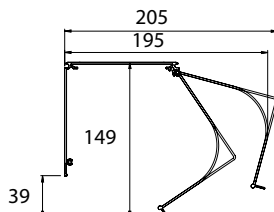
- A – outward winding "A" (standard)
- AE – outward winding "AE" (lighter exterior)
- B – inward winding "B" (lighter exterior)
- BE – inward winding "BE" (lighter exterior)

\* space for box opening

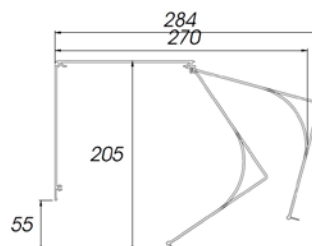
Type 90



Type 110



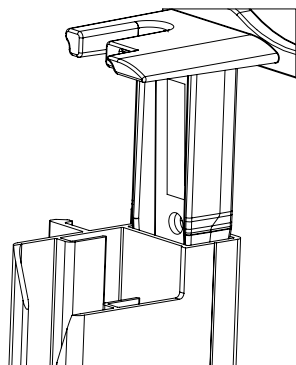
Type 150



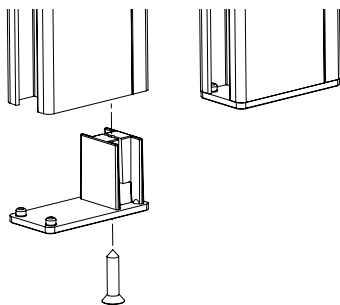
**Pin guide assembly**

The box is installed in guide rails, and the rails move over the bracket pins.

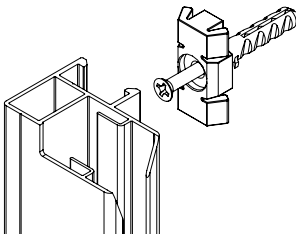
Pin guide assembly



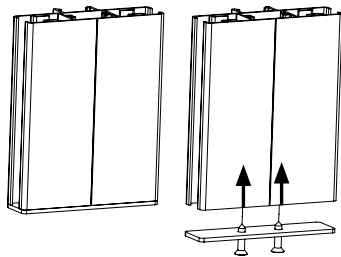
End stop



Holders for guide rails A829, A839, A855, A865



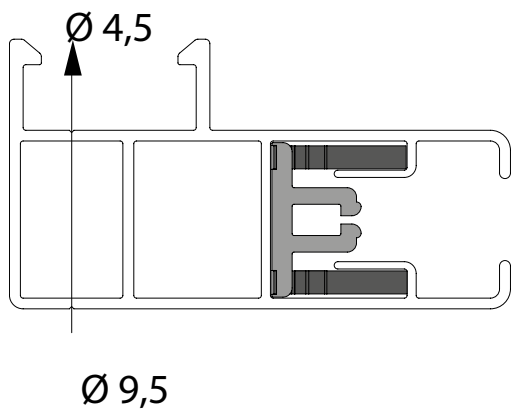
End stop on the auxiliary guide rail



With AI end stops on the bottom part for the end stop of bottom rail; thickness 2 mm.

Certain guide rails may be supplied with predrilled openings.

Drilling on the front:



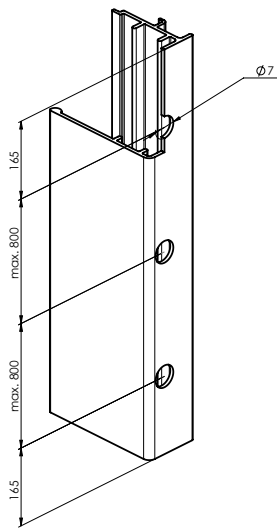
Guide rails for drilled openings on the front side:

| Drilling   | A829/A839 | A820/A830 | A828/A838, A837 | A855/A865 | A856/A866 |
|------------|-----------|-----------|-----------------|-----------|-----------|
| front side | YES       | YES       | NO              | YES       | YES       |

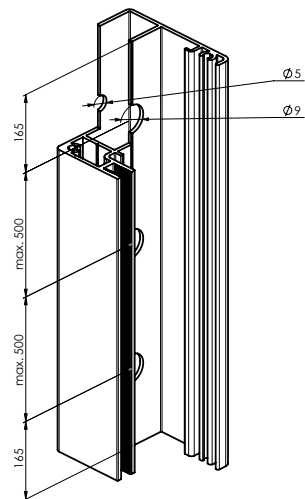
\* A820/A830 standard pre-drilled  
\* A829/A839 drilled only on request

## A840-1: drilling on the front/sideways

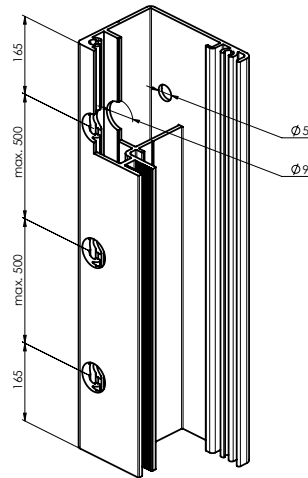
A840-1 drilling of the side guide channel cup



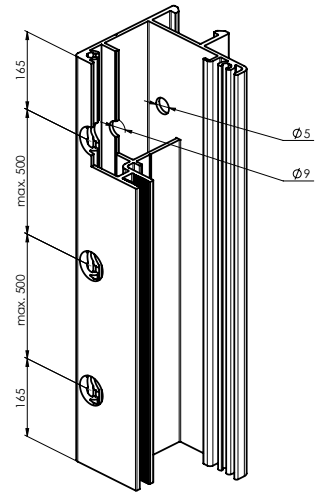
A840-1b sideways drilling



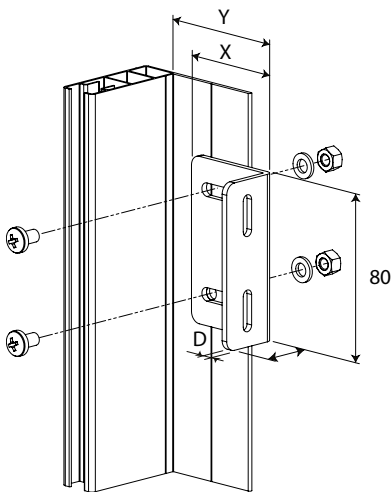
A840-1c front drilling



A849:drilling on the front



## Holder for guide rails A828 and A838, A837:



| <b>X × H × D</b> | <b>X</b> | <b>Y</b> | <b>drawing number</b> |
|------------------|----------|----------|-----------------------|
| 50 × 30 × 3      | 50       | 50–65    | 6-014549-0000         |
| 60 × 30 × 3      | 60       | 60–75    | 6-014550-0000         |
| 100 × 30 × 3     | 100      | 100–115  | 6-014552-0000         |
| 130 × 30 × 3     | 130      | 130–145  | 6-014542-0000         |

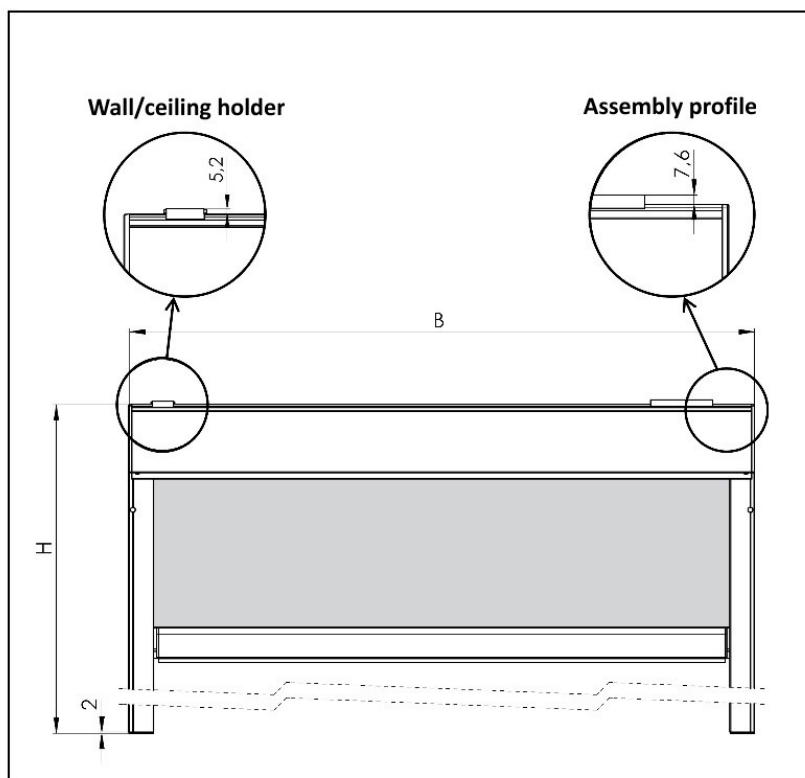
## SCREEN ALFA-ZIP

### Taking measurements of the ALFA-ZIP screen roller shutters

Final width B = distance between side pieces.

Final height H = height of the box and guide rail end pieces (thickness of guide rail end pieces = 3 mm) exclusive of the wall/ceiling holder or exclusive of the assembly profile.

More information in the separate document **Measurement and assembly instructions**.



### Assembly of the ALFA-ZIP screen roller shutters

There are several methods of roller blind installation depending on the installation situation.

Note: For the self-supporting version of the screen roller shutter assembly, please refer to Variant A, Method 2.

#### Variant A: Using the wall/ceiling holders

**Method 1.** Attaching the box using wall/ceiling holders, sliding the guide rails on the side piece pin, and securing the guide rails by bolts.

**Method 2.** Placing the complete assembly of the box and guide rails in or above the window opening and securing by bolts (used where there is insufficient space for sliding the guide rails on the side piece pin, for example due to the presence of a window sill, or for the self-supporting version of the screen roller shutter).



spirit level

**METHOD 1.** Attaching the box using wall/ceiling holders, sliding the guide rails on the side piece pin, and securing the guide rails by bolts.

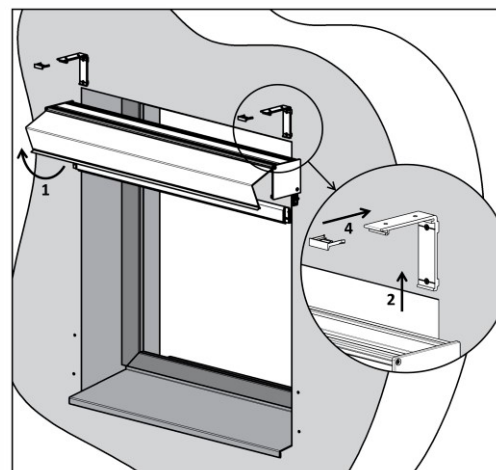
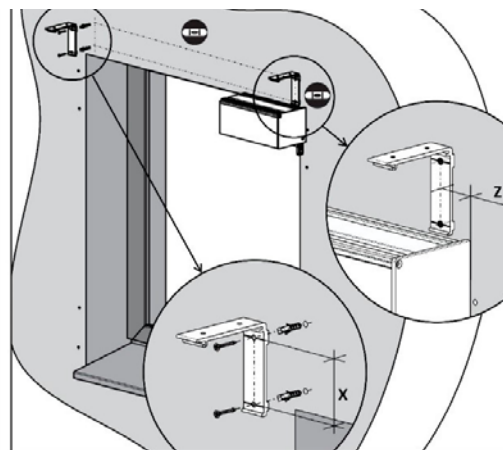
| Box type | X      |
|----------|--------|
| 90       | 52 mm  |
| 110      | 73 mm  |
| 150      | 115 mm |

**Step 1: Drilling the holes for the wall/ceiling holders**

1. Place the wall/ceiling holders to the assembly surface. Use the upper holes for ceiling mounting, and the rear holes for wall mounting.
2. The box must be perfectly horizontal, and therefore make sure whether the wall/ceiling holders are properly aligned. To do this, use a tube spirit level and a plumb line, or another suitable tool.
3. The wall/ceiling holders must be installed 40–100 mm from the box sides. Any additional holders are to be installed evenly distributed along the box width and they are intended to prevent arching of wider boxes.

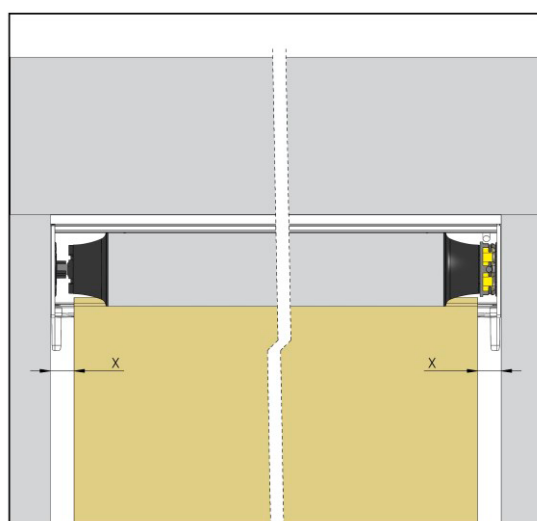
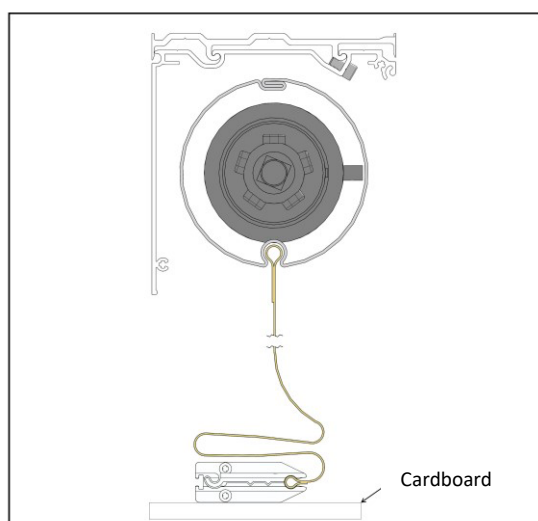
**Step 2: Installing the box to the wall/ceiling holder**

1. Remove the front cover of the box.
2. Fit the box to the wall/ceiling holders.
3. Make sure the box is correctly fitted to all holders.
4. Fit and push the safety locks; they must click to correct position.

**Step 3: Centring the fabric in the box**

1. Unroll the fabric completely from the roller (the fabric remains slid in the roller groove). Doing this, prevent soiling of the fabric and damage to the lower profile.
2. Centre the fabric in the roller so that it is in the centre of the box (not in the centre of the roller).
3. Check whether the fabric rolls up evenly → perform 2–3 control cycles. (CAUTION! End positions of the motor have not been set yet!)

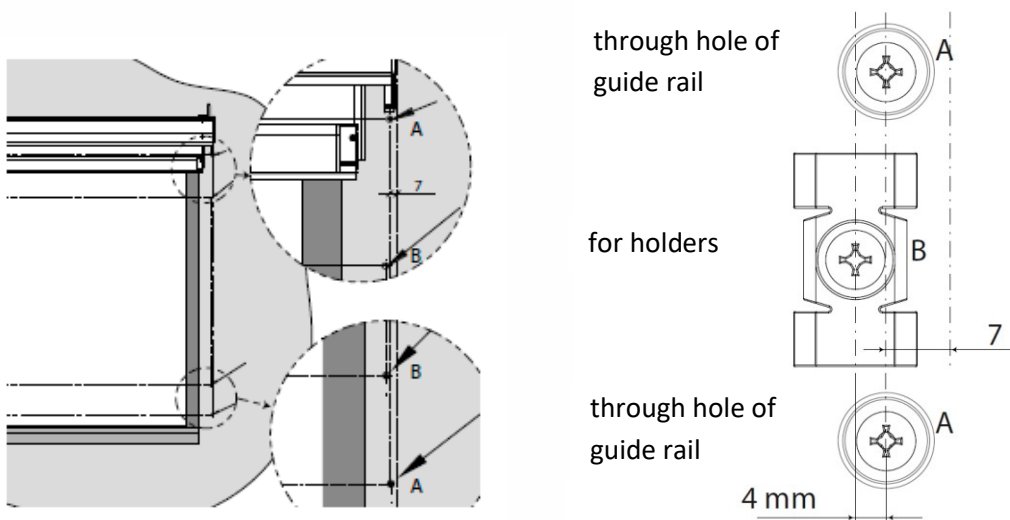
End the check by moving the lower rail approx. 15 cm under the box.



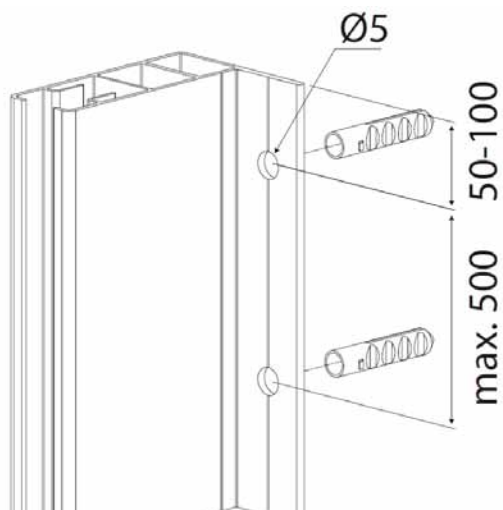


**Step 4: Drilling holes for the guide rails****Guide rails A839, A829:**

1. Indicate holes to be drilled to the wall or another assembly surface.
2. Use predrilled guide rails to do this.
3. A indicates holes for attaching the guide rails (see Fig. below).
4. B indicates holes for the holders (see Fig. below).

**Guide rails A830, A820:**

Use predrilled holes in the rails to attach the guide rails A830, A820.

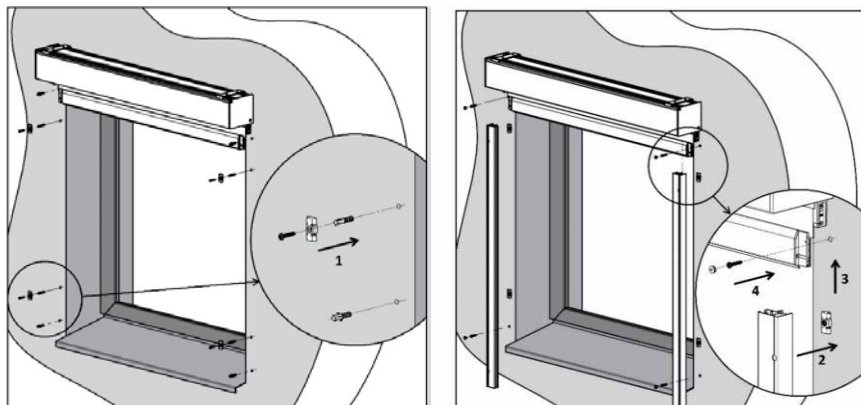
**Guide rails A838, A828, A837:**

**\*A840-1** – see assembly instruction

## Step 5: Installing the guide rails

### Guide rails A839, A829:

1. Attach the holders to the assembly surface.
2. Click the guide rails to the holders head-on.
3. Slide the guide rails to the side piece pins and make sure whether the bottom slat end pieces fit properly in the guide rail slots and whether the fabric zipper fits in the plastic insert in the bottom slat.
4. Attach the guide rails to the assembly surface through holes A.



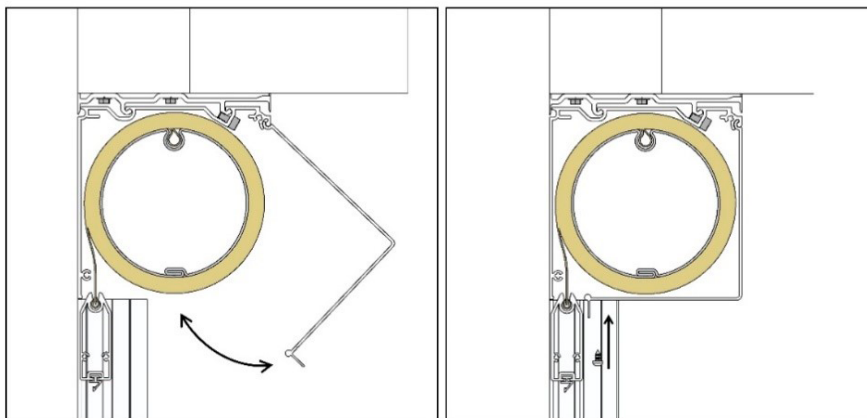
### Guide rails A830, A820, A838, A828, A837:

Slide the guide rails on the side piece pins and attach them to the assembly surface through holes A.

## Step 6: Attaching the front cover

Reinstall the box front cover.

After the installation of the roller shutter it is necessary to remove the sidewall remove the cable clamp.



### Step 7: Adjusting the motor

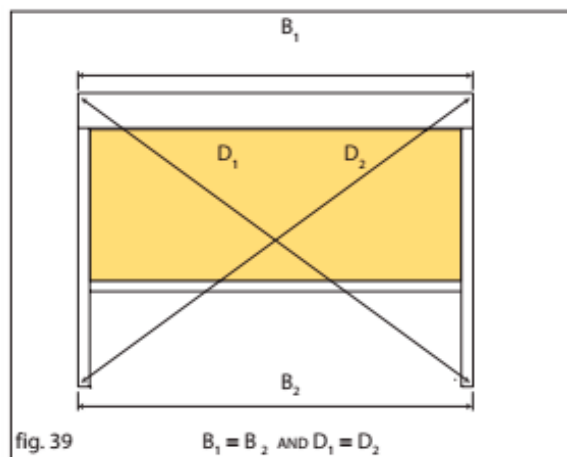
Set the end positions of the motor depending on the motor type (see manuals for motors).

### Step 8: Checking the assembly

Always make sure the roller blind is properly installed:

1. First, check **horizontality** of the box.
2. Check whether both guide rails are parallel to one another and, at the same time, perpendicular to the box.
3. Measure and compare the diagonals accurate to the nearest millimetre.

If the box and guide rails are not installed correctly, the bottom slat will wind into the box at an angle, causing the fabric to crinkle or pull out from the plastic insert in the guide rail.



**Method 2.** Placing the complete assembly of the box and guide rails in or above the window opening and securing by bolts (used where there is insufficient space for sliding the guide rails on the side piece pin, for example due to the presence of a window sill or for the self-supporting version of the screen roller shutter).

### Step 1: Drilling the holes for the wall/ceiling holders

1. Place the wall/ceiling holders to the assembly surface. Use the upper holes for ceiling mounting, and the rear holes for wall mounting.
2. The box must be perfectly horizontal, and therefore make sure whether the wall/ceiling holders are properly aligned. To do this, use a tube spirit level and a plumb line, or another suitable tool.
3. The wall/ceiling holders must be installed 40–100 mm from the box sides. Any additional holders are to be installed evenly distributed along the box width and they are intended to prevent arching of wider boxes.

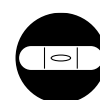
For the self-supporting version, skip Step 1 and continue to Step 2.

### Step 2: Drilling the holes for the guide rails

#### Guide rails A839, A829:

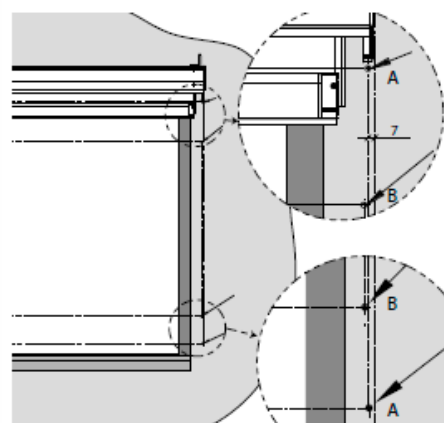
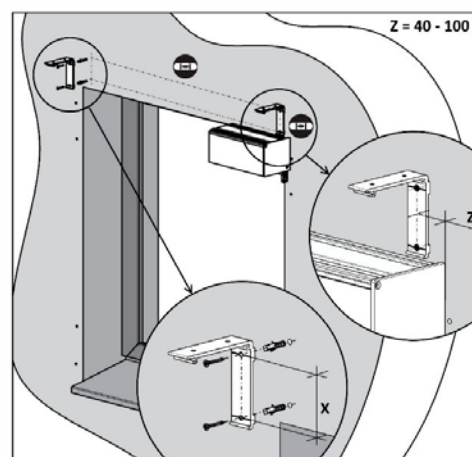
1. Indicate holes to be drilled to the wall or another assembly surface. Use predrilled guide rails to do this.
2. A indicates holes for attaching the guide rails (see Fig. below).
3. B indicates holes for the holders (see Fig. below).

Attach the holders to the assembly surface.



spirit level

| Box type | X      |
|----------|--------|
| 90       | 52 mm  |
| 110      | 73 mm  |
| 150      | 115 mm |



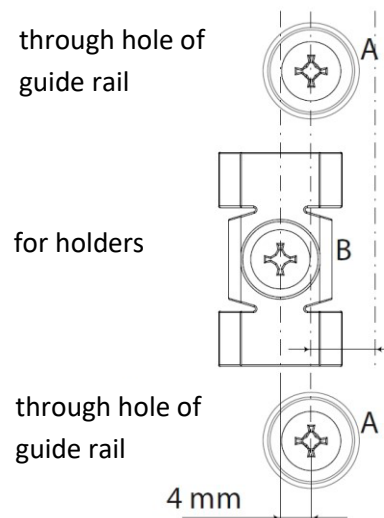
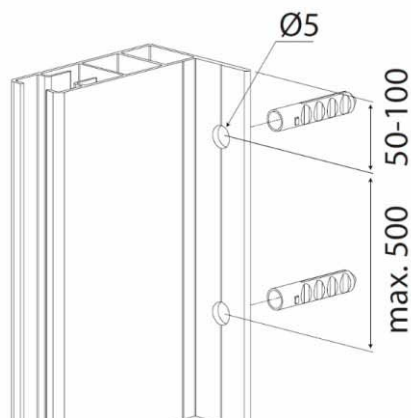
**Guide rails A830, A820:**

Use predrilled holes in the rails to attach the guide rails A830, 820.

For installation of the guide rails, it is necessary to use screws with a washer or with a larger support surface of the head.

**Guide rails A838, A828, A837:**

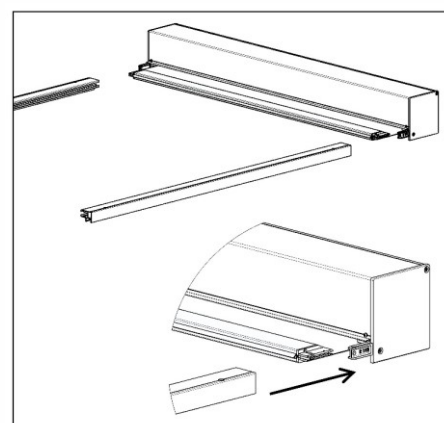
For installation of the guide rails, it is necessary to use screws with a washer or with a larger support surface of the head.



\*A840-1 - see assembly instruction

**Step 3: Sliding the guide rails on the side piece pins**

1. Place the roller blind box on the cardboard packaging (take care not to damage the surface treatment).
2. Then slide the predrilled guide rails to the side piece pins.
3. Make sure whether the bottom slat end pieces fit properly in the guide rail slots and whether the fabric zipper fits in the plastic insert in the guide rail.

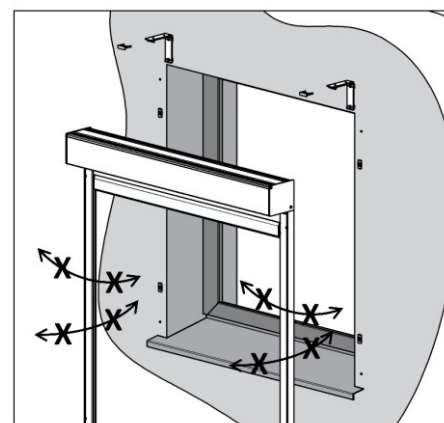
**Step 4: Fitting the box and guide rails**

Lift the box with the guide rails. Do this in cooperation with at least two other persons depending on the box width. Place the complete assembly to the window opening.

For installation of the guide rails, it is necessary to use screws with a washer or with a larger support surface of the head.

During assembly, extra care must be taken to avoid breaking the sideboard spike.

The self-supporting version of the roller shutter does not use a mounting profile or a „wall-ceiling“ bracket, and therefore there is a natural slight deflection of the box in the width of the roller shutter. This deflection creates an optical gap between the upper edge of the box and the soffit, where the self-supporting screen is mounted.



**Caution! Make sure not to break off the pins by sliding the guide rails too forward, backward, or sideward.**

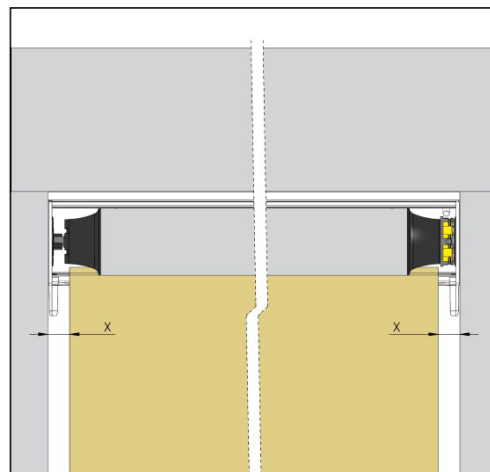
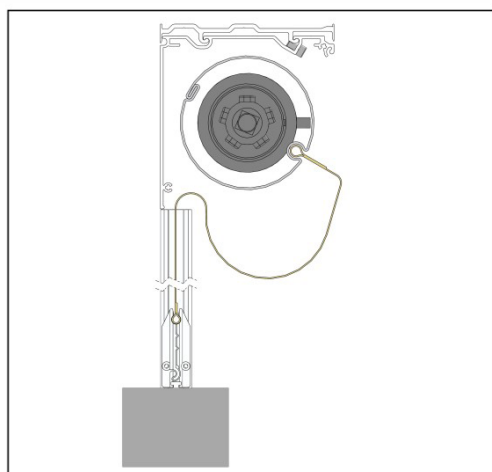
### Step 5: Attaching the box to the wall/ceiling holders, and attaching the guide rails

1. Fit the box to the wall/ceiling holders.
2. Make sure the box is correctly fitted to all holders.
3. Fit and push the safety locks; they must click to correct position.
4. For guide rails A839, 829: click them to the holders head-on and attach to the assembly surface through holes A.
5. For guide rails A830, 820, A838, A837, A828: attach them to the assembly surface through holes A.

### Step 6: Centring the fabric in the box

1. Unroll the fabric completely from the roller (the fabric remains slid in the roller groove). Doing this, prevent soiling of the fabric and damage to the lower profile.
2. Centre the fabric in the roller so that it is in the centre of the box (not in the centre of the roller).
3. Check whether the fabric rolls up evenly → perform 2–3 control cycles. (CAUTION! End positions of the motor have not been set yet!)

End the check by moving the lower rail approx. 15 cm under the box.



### Step 7: Adjusting the motor

Set the end positions of the motor depending on the motor type (see manuals for motors).

It is necessary to connect the motor cables according to the drawing from the supplier and must be carried out by trained professionals. The entire electrical line must be de-energized during connection. The motors are in the factory settings, and during assembly it is necessary to perform the settings according to the manufacturer's instructions, including the end stops.

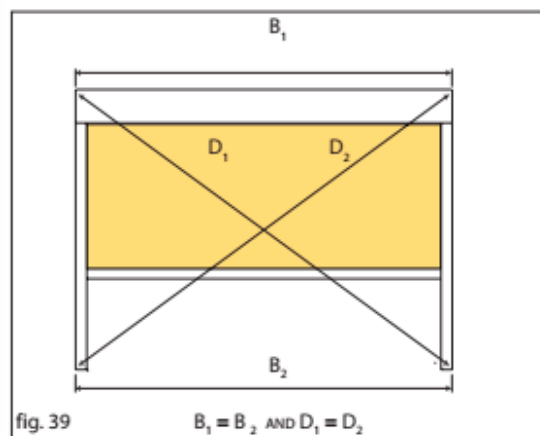
**ATTENTION!** The lower end position must never be exceeded. This could lead to reverse winding of the fabric and damage to

### Step 8: Checking the assembly

Always make sure the roller blind is properly installed:

1. First, check **horizontality** of the box.
2. Check whether both guide rails are parallel to one another and, at the same time, perpendicular to the box.
3. Measure and compare the diagonals accurate to the nearest millimetre.

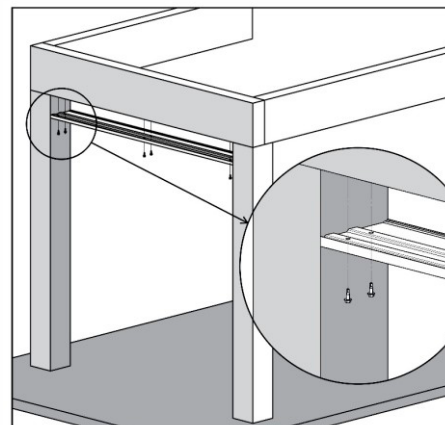
If the box and guide rails are not installed correctly, the bottom slat will wind into the box at an angle, causing the fabric to crinkle or pull out from the plastic insert in the guide rail.



## Variant B: Using the assembly profile

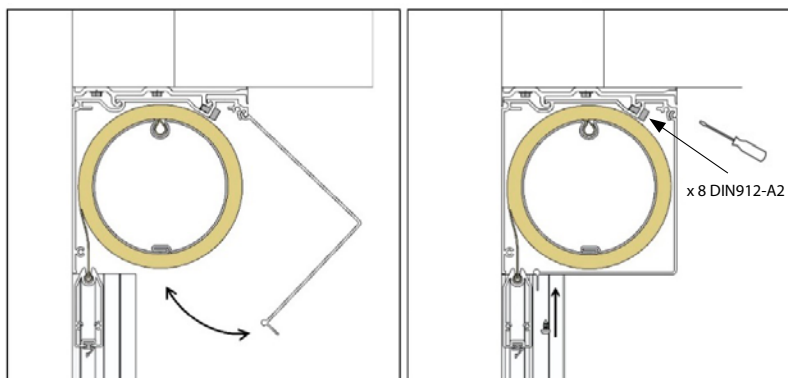
### Step 1: Attaching the profile

1. Place the profile to the assembly surface and indicate the spots according to the predrilled holes. **The assembly surface must be perfectly horizontal!**
2. Predrill the holes according to the fasteners used and attach the assembly profile.



### Step 2: Installing the box to the assembly profile

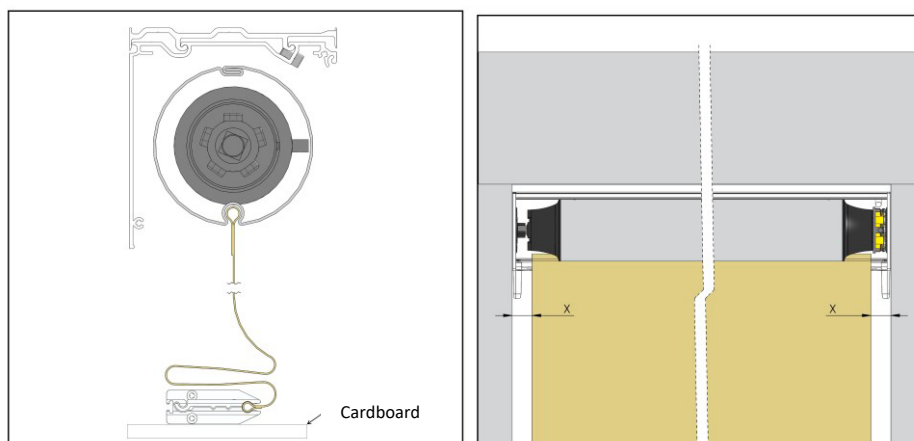
1. Remove the front cover of the box.
2. Fit the box to the assembly profile.
3. Make sure the box is correctly fitted to both locks throughout its length.
4. Drive the provided M4 bolts to predrilled holes in the box.



### Step 3: Centring the fabric in the box

1. Unroll the fabric completely from the roller (the fabric remains slid in the roller groove). Doing this, prevent soiling of the fabric and damage to the lower profile.
2. Centre the fabric in the roller so that it is in the centre of the box (not in the centre of the roller).
3. Check whether the fabric rolls up evenly → perform 2–3 control cycles. (CAUTION! End positions of the motor have not been set yet!)

End the check by moving the lower rail approx. 15 cm under the box.





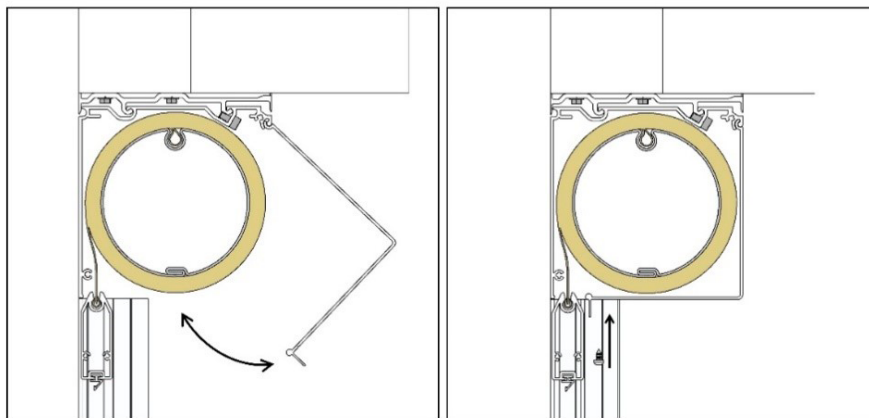
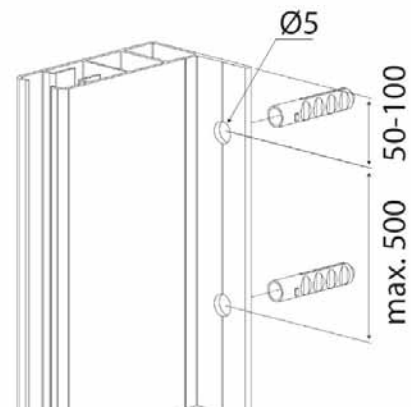
**Step 4: Attaching guide rails**

1. Slide the guide rails to the side piece pins.
2. Make sure whether the bottom slat end pieces fit properly in the guide rail slots and whether the fabric zipper fits in the plastic insert in the guide rail.
3. Fasten the rails with bolts

**Step 5: Attaching the front cover**

Reinstall the box front cover.

After the installation of the roller shutter it is necessary to remove the sidewall remove the cable clamp.

**Step 6: Adjusting the motor**

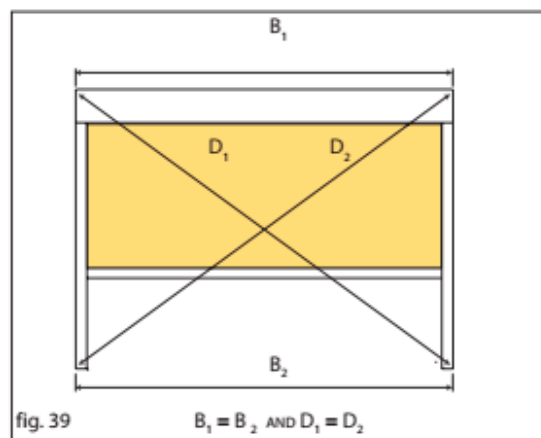
Set the end positions of the motor depending on the motor type (see manuals for motors).

**Step 7: Checking the assembly**

Always make sure the roller blind is properly installed:

1. First, check **horizontality** of the box.
2. Check whether both guide rails are parallel to one another and, at the same time, perpendicular to the box.
3. Measure and compare the diagonals accurate to the nearest millimetre.
- 4.

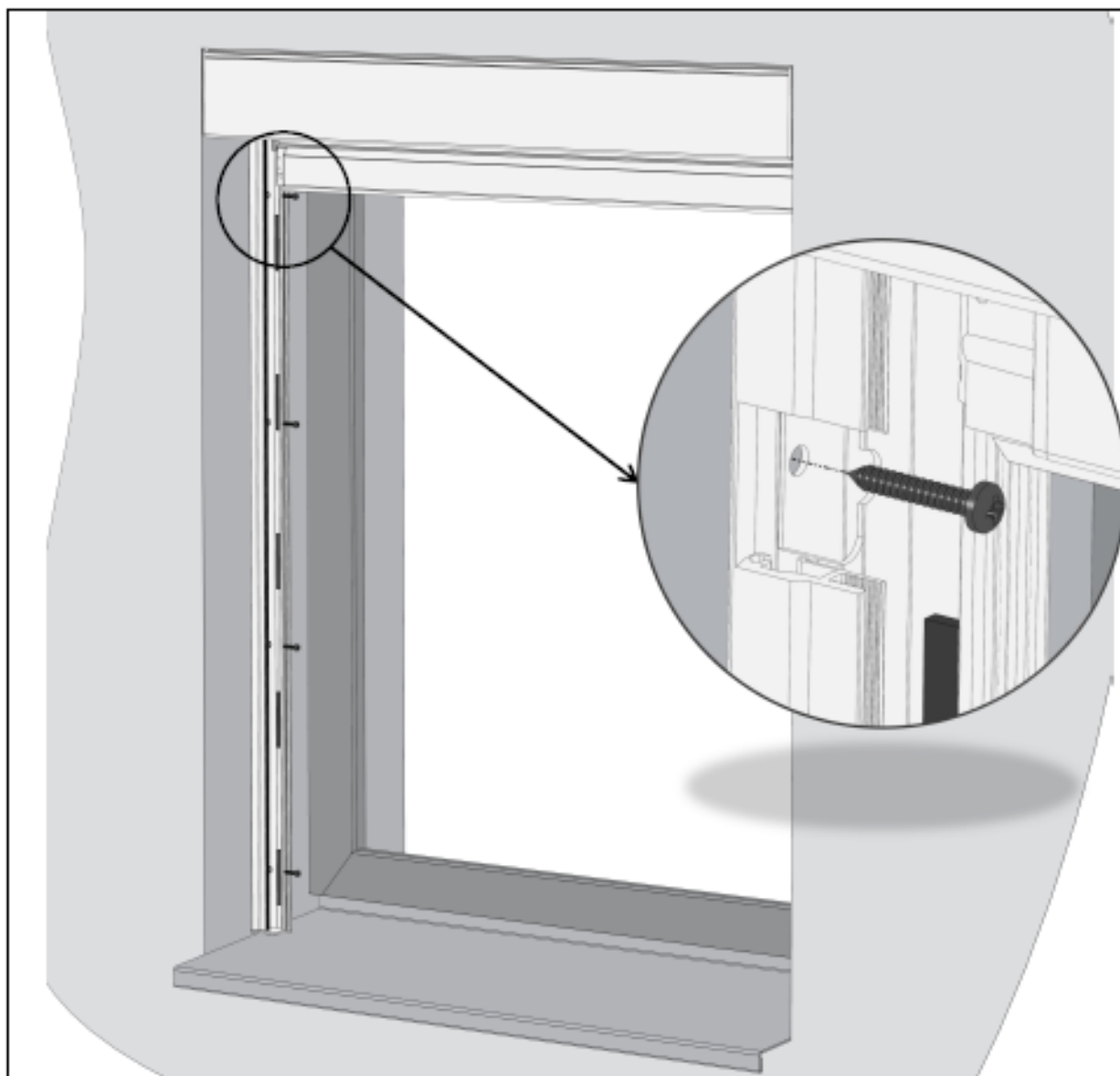
If the box and guide rails are not installed correctly, the bottom slat will wind into the box at an angle, causing the fabric to crinkle or pull out from the plastic insert in the guide rail.



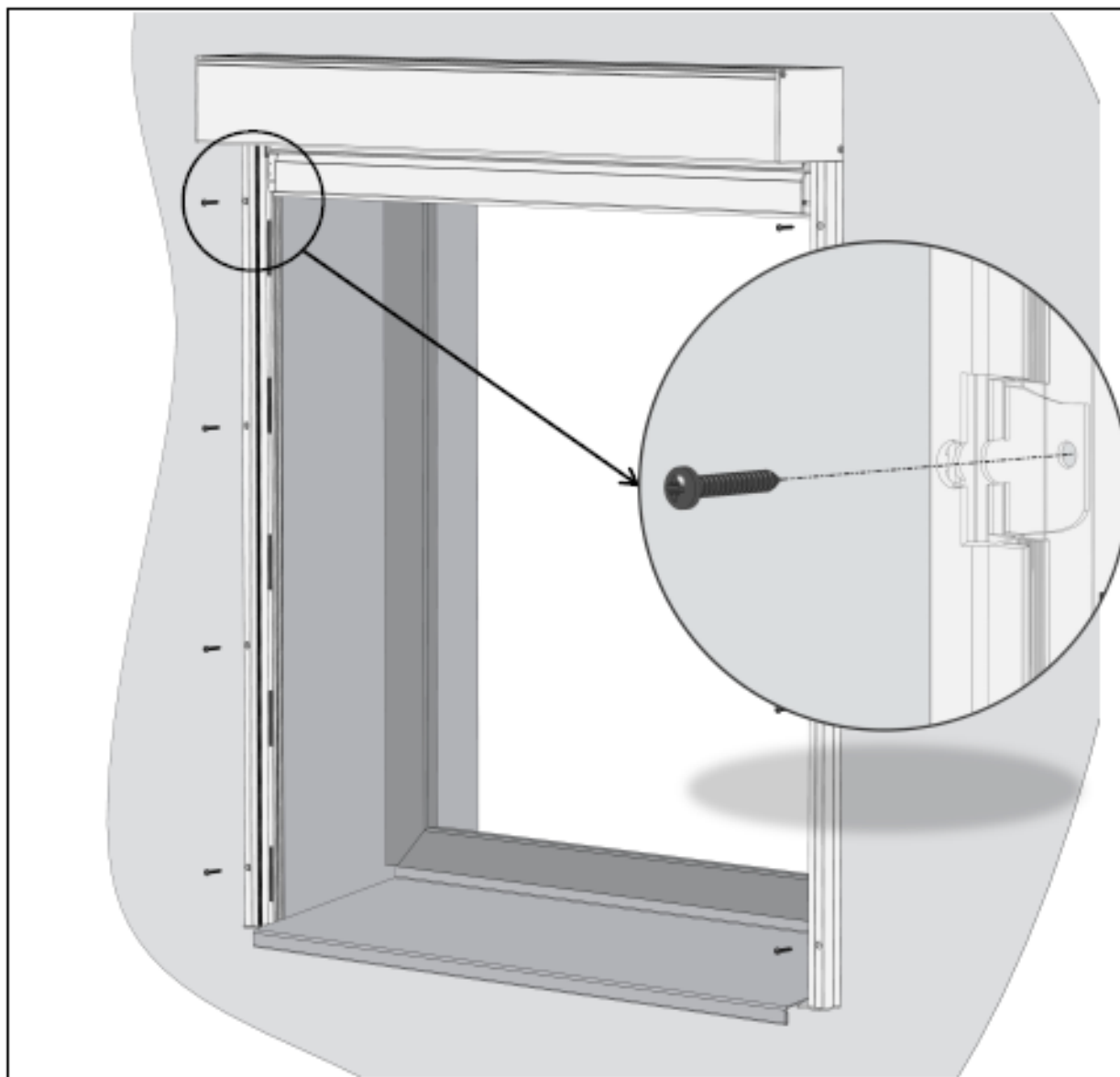
## \* Assembly – sectional guide rail A840-1

### 1. Assembling the guide rail

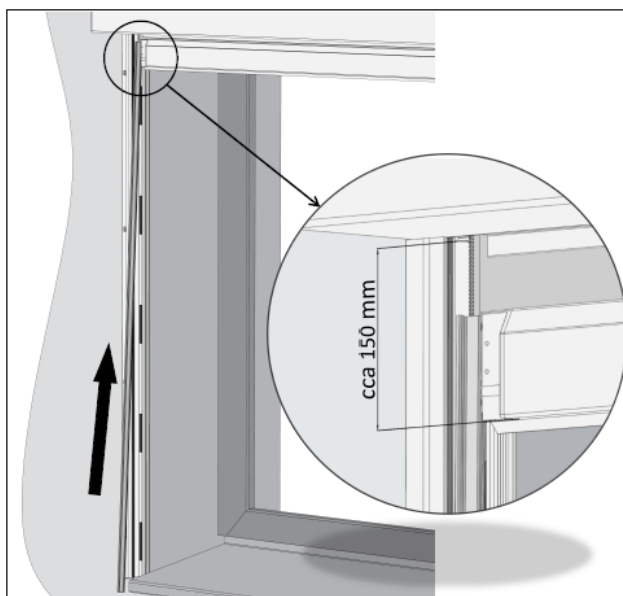
#### 1.a Side assembly of the guide rail



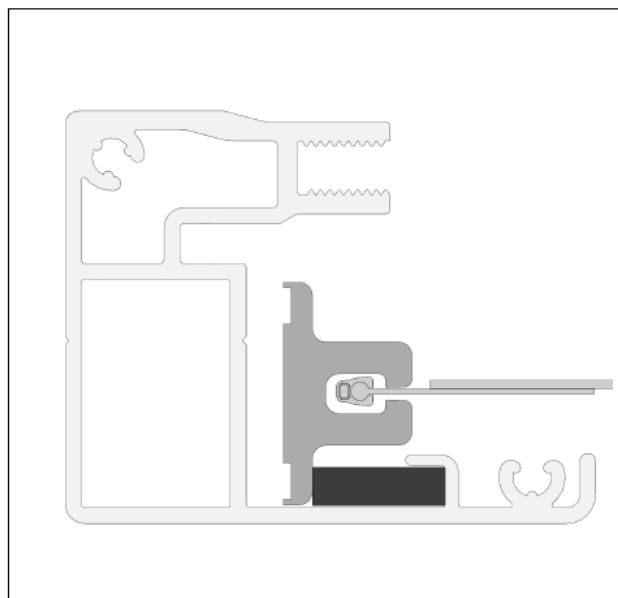
## 1.b Front assembly of the guide rail



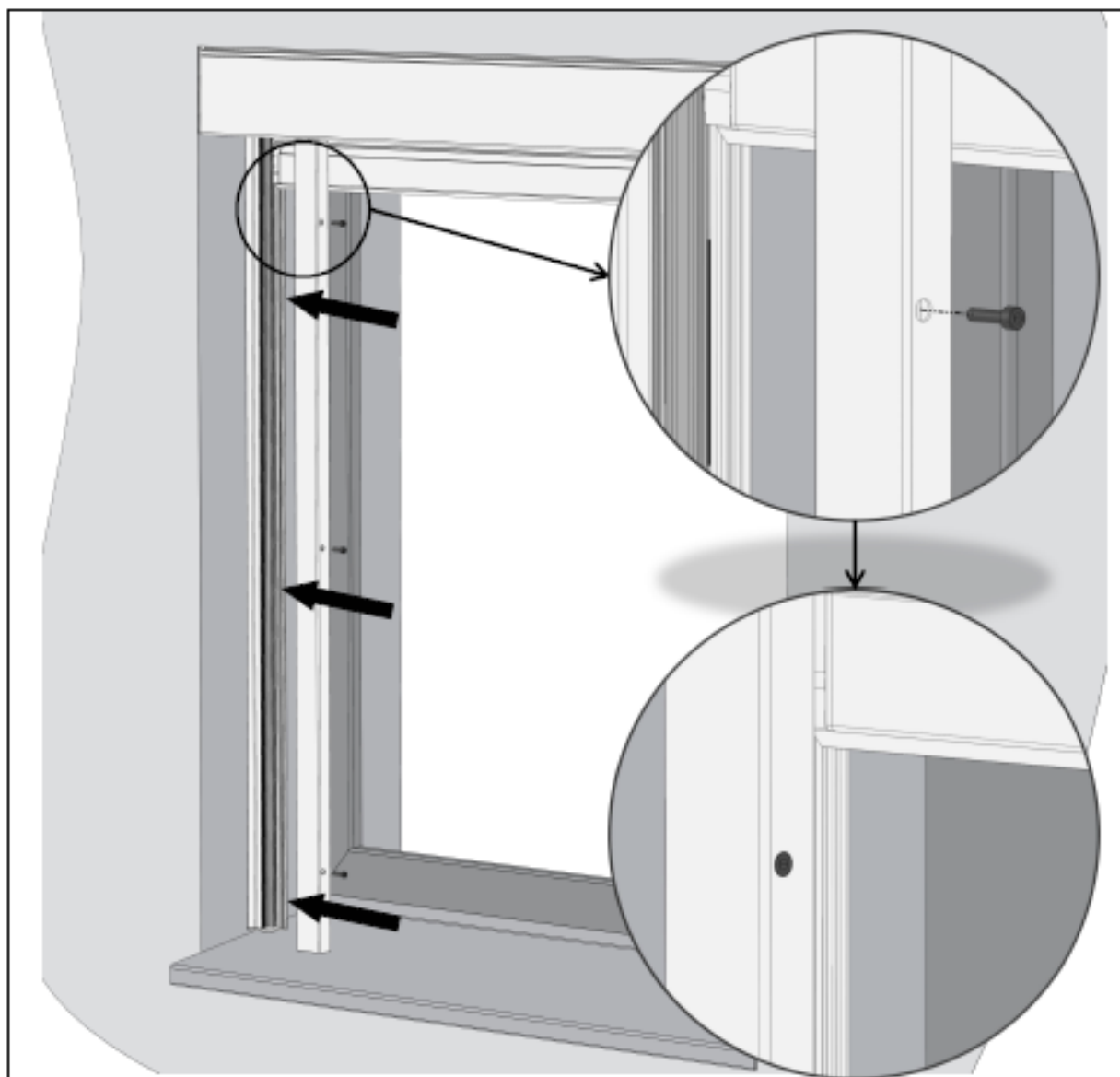
## 2. Fitting the zipper profile



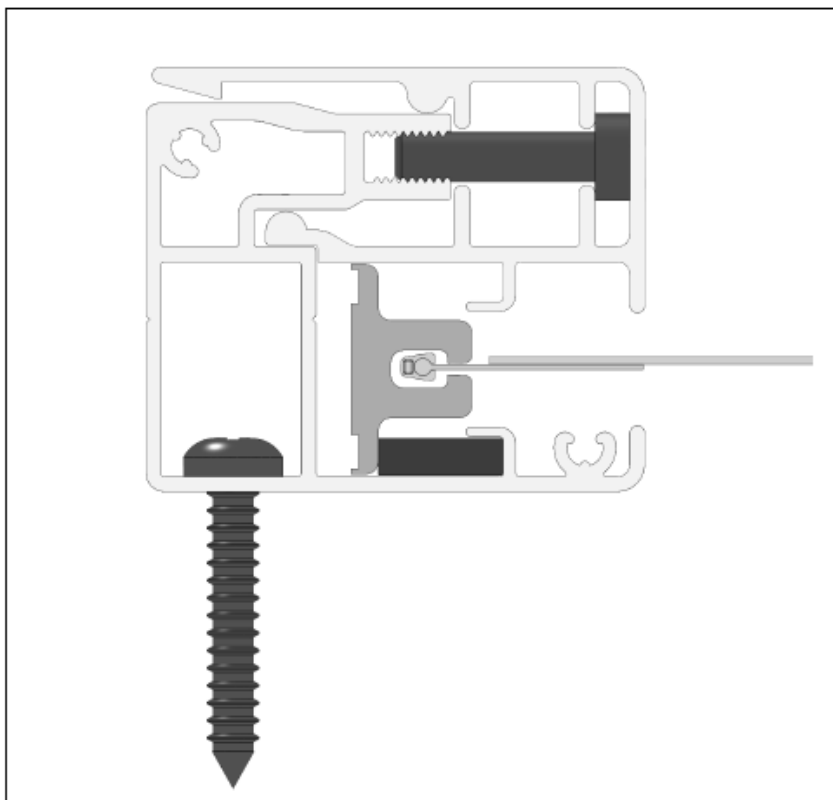
## Cross-section of the rail A840-1 after fitting the zipper profile



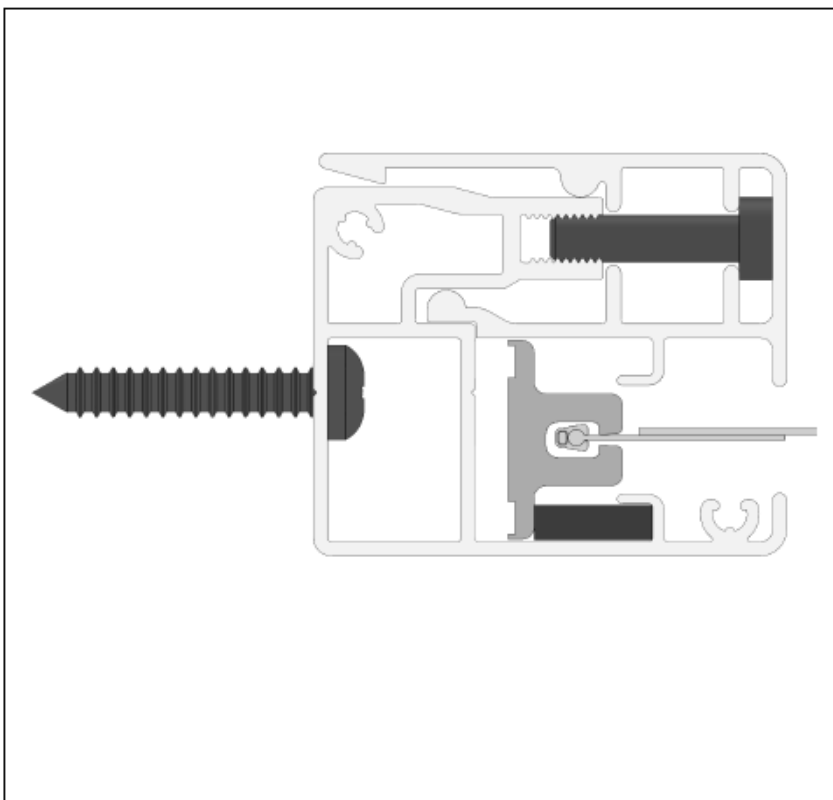
## 3. Fitting the lock A840-1



## 3.a Cross-section of the rail A840-1 after front-mounting



## 3.a Cross-section of the rail A840-1 after side-mounting

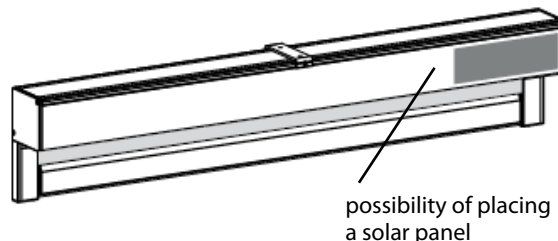


## SCREEN ALFA-ZIP SOLAR (2-01576-SOLAR)

Screen blind with exterior solar power supply is a unique and fully automated blind that is wirelessly controlled and has zero power consumption. This blind works on the principle of the so-called photovoltaic phenomenon – i.e. the conversion of solar radiation into electricity. This is the most environmentally friendly and energy-saving roller shutter solution. The drive is powered by a long-life battery recharged by a solar panel that works in all weather conditions. One solar unit is adapted for only one screen roller blind.

### Parameters of this product with motor SUNEa:

- Box design angular only
- Pipe  $\varnothing$  55,  $\varnothing$  67,  $\varnothing$  85
- Standard - internal battery for box 150 only
- Optional – use of external battery for box 90 and 110
- The solar panel is always on the motor side
- Installation of the B-BE type (in the block) is not possible
- Possibility of multiple blinds in a common box, provided that each roller shutter will have its own motor and external battery.
- only bottom rail 18x50



### Parameters of this product with motor ISOTRA BASIC:

- Box design angular only, 110, 150
- Pipe  $\varnothing$  85, 100
- Standard - internal battery (outside motor)
- The solar panel is always on the motor side
- Installation of the B-BE type (in the block) is not possible
- Possibility of multiple blinds in a common box, provided that each roller shutter will have its own motor.
- only bottom rail 18x50

### Standard dimensions for box 90

| Control                | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|------------------------|------------|------|-------------|------|-----------------------------------|
|                        | min.       | max. | min.        | max. | max.                              |
| solar system Sunea     | 595        | 2500 | 400         | 3000 | 8                                 |
| self-supporting system | 795        | 1500 | 400         | 2500 | 8                                 |

The ISOTRA BASIC SOLAR kit cannot be used for the 90 box.

### Standard dimensions for box 110

| Control                   | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|---------------------------|------------|------|-------------|------|-----------------------------------|
|                           | min.       | max. | min.        | max. | max.                              |
| solar system Isotra Basic | 795        | 4200 | 400         | 3500 | 15                                |
| solar system Sunea        | 595        | 3200 | 400         | 3500 | 8                                 |
| self-supporting system    | 795        | 3500 | 400         | 3000 | 15                                |

### Standard dimensions for box 150

| Control                   | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|---------------------------|------------|------|-------------|------|-----------------------------------|
|                           | min.       | max. | min.        | max. | max.                              |
| solar system Isotra Basic | 795        | 6000 | 400         | 5000 | 18                                |
| solar system Sunea        | 595        | 3500 | 400         | 3500 | 8                                 |

### Solar set ISOTRA BASIC:

- Motor ISOTRA BASIC SOLAR 20/12
- Solar panel ISOTRA BASIC
- Built-in Li-on battery 12V, 2500 mAh
- Charger ISOTRA BASIC
- Controllers ISOTRA BASIC
- Smart Zigbee

| Item name                                           | Business name | Drawing number |
|-----------------------------------------------------|---------------|----------------|
| motor ISOTRA BASIC Solar 20/12                      | X.AM45C       | 6-019352-0020  |
| solar panel ISOTRA BASIC                            | X.AC605-03    | 6-019694-0000  |
| controller ISOTRA BASIC, 1-canal, Zigbee - silver   | X.AC153-01    | 6-019351-0001  |
| controller ISOTRA BASIC, 16-canals, Zigbee - silver | X.AC153-06    | 6-019351-0006  |
| charger ISOTRA BASIC, DC12, 6V                      | X.AC-DC12.6V  | 6-09353-0000   |
| Smart Zigbee                                        | X.AC526-01    | 6-019354-0000  |

**Solar set SUNEa**

- motor SOLAR KIT SUNEa
- Solar panel Oximo WireFree resin 3.2 W Solar panel
- Oximo WireFree batteries, NiMH 12V, 2.2 Ah
- Oximo WireFree Wiring Harness Adapter Cable

| itemname                                    | business name | drawingnumber |
|---------------------------------------------|---------------|---------------|
| Motor SOLAR KIT „SUNEa 40 io“ 6/18          | X.1241890     | 6-018887-0006 |
| Motor SOLAR KIT „SUNEa 40 io“ 10/12         | X.1241891     | 6-018887-0010 |
| Motor SOLAR KIT „SUNEa 40“ 6/18 RTS DC      | X.1241478     | 6-017545-0006 |
| Motor SOLAR KIT „SUNEa 40“ 10/12 RTS DC     | X.1241479     | 6-017545-0010 |
| Adapter cable OXIMO WIREFREE WIRING HARNESS | X.1783002     | 6-016472-0000 |
| Oximo WireFree batterie                     | X.9015004     | 6-016469-0000 |
| Solar panel Oximo 40 WF                     | X.9019219     | 6-016467-0000 |
| Batterie holder Oximo WF - pair             | X.9020878     | 6-016476-0000 |

**Oximo WireFree Battery**

- Battery Type NiMH
- Size 420mm x Ø 25 mm
- IPx4 protection class
- Charging time max. 3.5 hours

**Oximo WireFree solar panel**

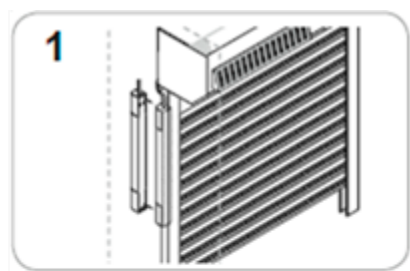
- Material laminated black fiberglass with transparent epoxy resin with photovoltaic technology
- Input power 3.2 W
- Dimensions 470 x 60 x 6 mm
- Protection class X4 (cells sensitive to light: IP67)
- Supplies energy even when the sky is cloudy

**Installation:**

The battery can be installed in the room, but can also be placed from the outside in a roller box, but provided that it is not exposed to direct sunlight and rain.

The working temperature is from -20 ° C to + 70 ° C. The IP protection class is X4, which means that the product is splash-proof at all angles.

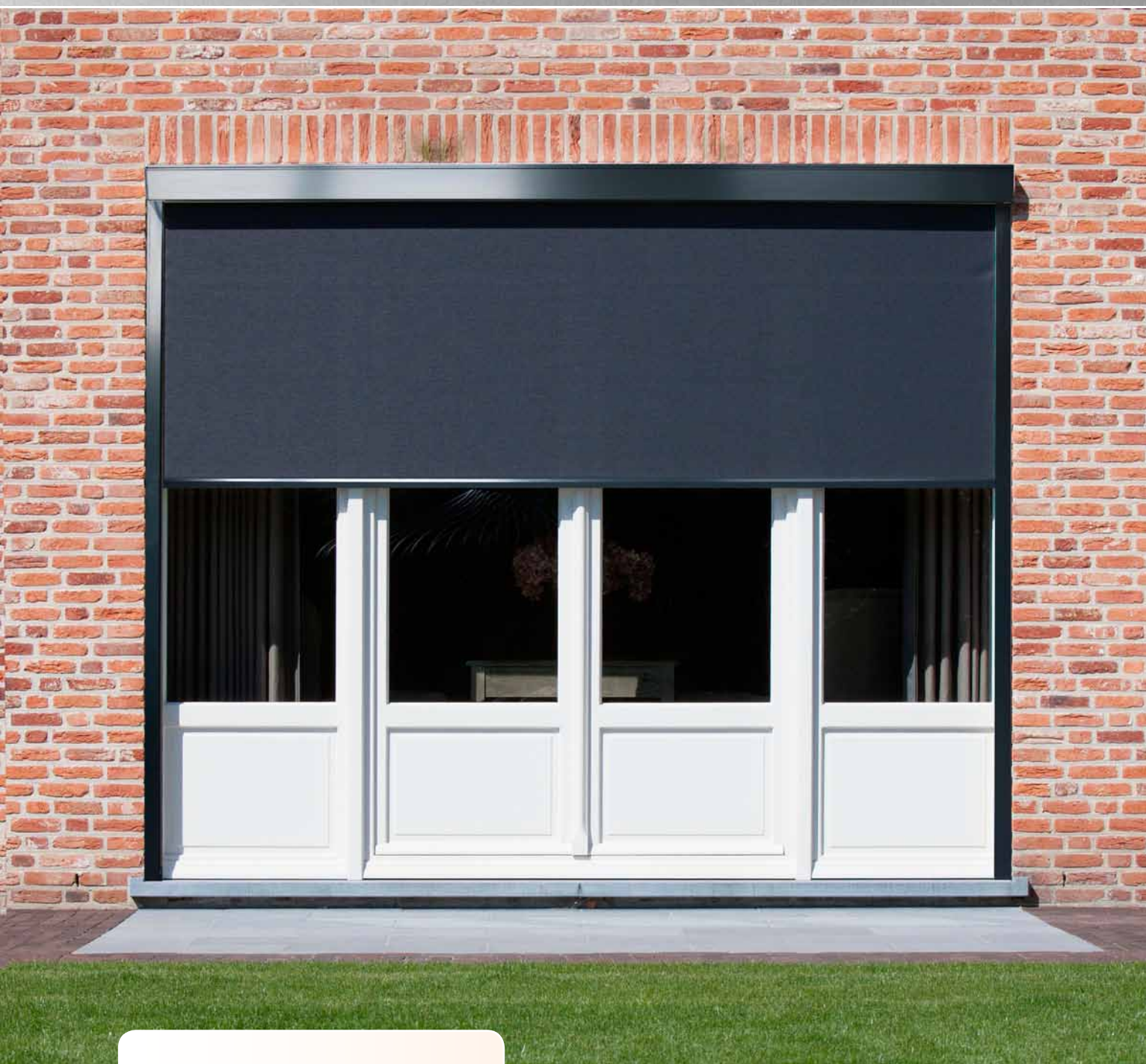
The Oximo WireFree TM battery must be installed so that it is protected from the weather. For example, it can be mounted behind the guide rail (1), behind the roller box or underneath the box (2), under the window frame or in the corner of the inner wall. Attention! The battery must be accessible in any position of the roller shutter so that the PROG button is always accessible for maintenance and recharging with external charger or for replacement. Do not seal the battery in an airtight case. If the battery is installed in a position other than horizontal, the power cord should always point upwards.



Batteries are always placed outside - not inside the box - for all box sizes.



## SCREEN ALFA PLUS-ZIP

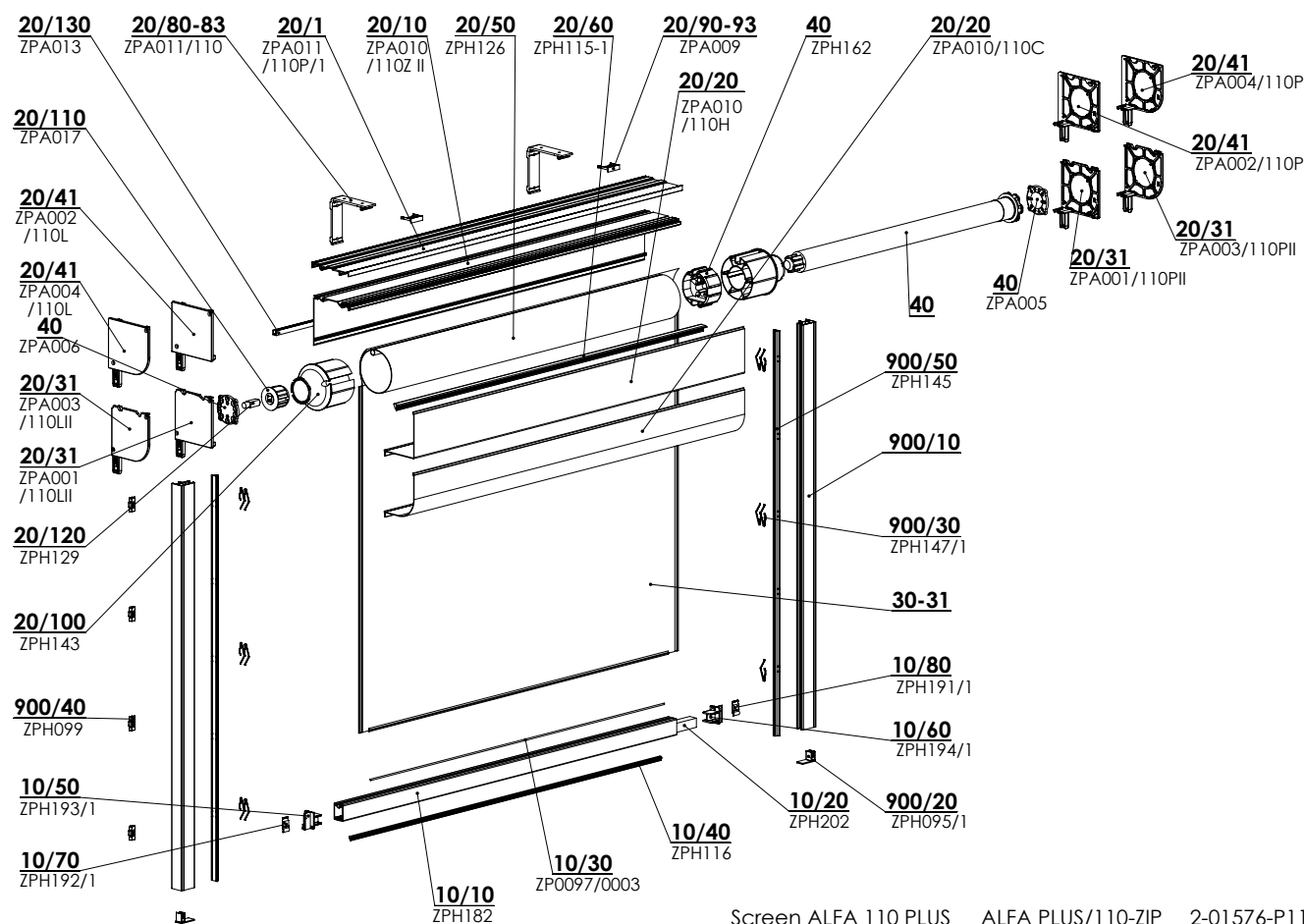


- ▲ 2 types of modern boxes: square box for austere architecture or rounded box for more traditional buildings
- ▲ Weighted bottom slat to guide and tension the fabric
- ▲ the highest wind resistance (wind class 6)
- ▲ Simple and fast assembly
- ▲ Guaranteed area up to 12 m<sup>2</sup>

**ISOTRA** *Quality*

## SCREEN ALFA PLUS-ZIP

### Basic Product Specification

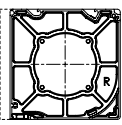
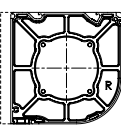
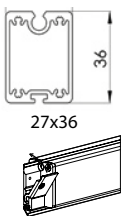
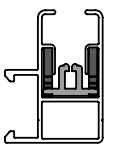
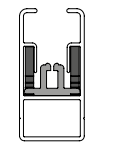
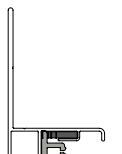
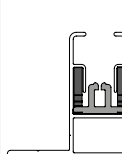
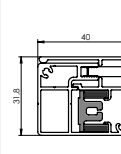
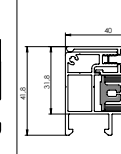


### Control

Serves for lifting and lowering the screen blind.

**Motor** - standard asynchronous tubular motor Maestria Wt, or optional asynchronous tubular motors Maestria iO Geiger.

### Specification (for motor)

|                       | Box                                                                                                                                              |                                                                                     | Bottom rail                                                                         | Side guidance                                                                                                                                                                       |                                                                                     |                                                                                      |                                                                                                  |                                                                                       |                                                                                       |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                       | square                                                                                                                                           | rounded                                                                             | high                                                                                | guide rail                                                                                                                                                                          |                                                                                     |                                                                                      |                                                                                                  |                                                                                       |                                                                                       |
| <b>Abbreviation</b>   | <b>BOX for SCREEN ALFA PLUS 110</b>                                                                                                              |                                                                                     | ZPH182                                                                              | ZPA016/839                                                                                                                                                                          | ZPA016/830                                                                          | ZPH214/837                                                                           | ZPA016/838                                                                                       | ZPA036/840-1                                                                          | ZPA037/849                                                                            |
| <b>Dimension (mm)</b> | 110x110                                                                                                                                          | 110x110                                                                             | 27X36                                                                               | 30x40                                                                                                                                                                               | 20x40                                                                               | 40x70                                                                                | 40x40                                                                                            | 31,8x40                                                                               | 41,8x40                                                                               |
| <b>Material</b>       | Al                                                                                                                                               | Al                                                                                  | Al                                                                                  | Al                                                                                                                                                                                  | Al                                                                                  | Al                                                                                   | Al                                                                                               | Al                                                                                    | Al                                                                                    |
|                       |                                                               |  |  |                                                                                                  |  |  |             |  |  |
|                       |                                                                                                                                                  |                                                                                     |                                                                                     | typ 839                                                                                                                                                                             | typ 830                                                                             | typ 837                                                                              | typ 838                                                                                          | type A840-1                                                                           | type 849                                                                              |
| <b>Colors</b>         | Standard:<br>RAL 9006 White aluminium<br>RAL 9007 Grey aluminium<br>RAL 9007S Grey aluminium structure<br>RAL 9010 white<br>RAL 9010M white matt |                                                                                     |                                                                                     | RAL 9010S White structure<br>RAL 7016 Anthracite grey<br>RAL 7016M Anthracite grey matt<br>RAL 7016S Anthracite grey structure<br>RAL 8014S Brown structure<br>RAL 8014M Brown matt |                                                                                     |                                                                                      | RAL 7012 Basalt grey<br>RAL 7021 Black grey<br>DB 702 Pearl light grey<br>DB 703 Pearl dark grey |                                                                                       |                                                                                       |

Other RAL colours upon request\*

## Standard Dimensions

| Control      | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|--------------|------------|------|-------------|------|-----------------------------------|
|              | min.       | max. | min.        | max. | max.                              |
| motor iO, WT | 795        | 4800 | 400         | 2500 | 12                                |

## Fabrics intended for ALFA 110 PLUS:

SLTZ86 a SLTZ92

## Common phenomena of technical fabrics

The waviness of the fabric may occur around the welds or in the middle of the fabric, as different forces act on the fabric during use, and that's why this effect is common. This also includes the so-called tree effect, when the fabric is wavy in the seam area. Visible cylinder pressure marks on the fabric. These disappear at higher temperatures when the fabric straightens out. The bottom slat does not reach the box.

**SCREEN ALFA PLUS-ZIP (2-01576-P110)**

| position | item name                                         | business name | drawing number                                    |
|----------|---------------------------------------------------|---------------|---------------------------------------------------|
| 10       | Split profiles + components - (SCREEN ALFA +)     |               | see Split profiles + components - (SCREEN ALFA +) |
| 20       | BOX for SCREEN ALFA + 110 – QUARTER-ROUND         |               | see BOXES for SCREEN ALFA + 110                   |
| 20       | BOX for SCREEN ALFA + 100 - ANGULAR               |               | see BOXES for SCREEN ALFA + 110                   |
| 30-31    | Split fabric (m2) for SCREEN                      |               | see SCREEN pattern chart                          |
| 40       | Motors (SOMFY, GEIGER, BECKER) SCREEN SC700 / 800 |               | see Motors (SOMFY, GEIGER, BECKER) SCREEN ALFA    |
| 900-910  | Guide - rail ALFA + LEFT / RIGHT                  |               | see Guide - rail ALFA + LEFT / RIGHT              |

**DIVIDED profiles + components - (SCREEN ALFA +) (3-03711-PU11)**

| position | item name                                               | business name | drawing number |
|----------|---------------------------------------------------------|---------------|----------------|
| 10/10    | Bottom profile - SC1000                                 | ZPH182        | 6-015158-0000  |
| 10/20    | Profile of the bottom slat weight 20x12mm - Fe / Zn     | ZPH076        | 6-013971-0000  |
| 10/30    | Plastic rod 3.0 mm PVC                                  | ZP0097/0003   | 6-016911-0003  |
| 10/40    | Bottom slat seal                                        | ZPH116        | 6-013974-0000  |
| 10/50    | Profile of bottom slat – ALFA - LEFT BLACK              | ZPH093/1      | 3-03657-9004   |
| 10/60    | Profile of bottom slat – ALFA – RIGHT BLACK             | ZPH094/1      | 3-03656-9004   |
| 10/70    | Safety lock of bottom slat end piece ALFA – LEFT BLACK  | ZPH092/1      | 3-03659-9004   |
| 10/80    | Safety lock of bottom slat end piece ALFA – RIGHT BLACK | ZPH091/1      | 3-03658-9004   |

**BOX for SCREEN ALFA + 110 (2-01640-PU11 square/ 2-01641-PU11 quarter-round)**

| position | item name                                | business name  | drawing number |
|----------|------------------------------------------|----------------|----------------|
| 20/1     | Profile Holder Alfa 110 Pergola          | ZPA011/110P/1  | 7-303888-0000  |
| 20/10    | Profile Box Alfa 110 Rear                | ZPA010/110Z II | 7-303491-0000  |
| 20/20    | Profile Box Alfa 110 Front Angular       | ZPA010/110H    | 7-303479-0000  |
| 20/20    | Profile Box Alfa 110 Front Quarter-round | ZPA010/110C    | 7-303480-0000  |
| 20/31    | Side panel 110 Alfa H1-1 P N             | ZPA001/110P/3  | 3-04130-0000   |
| 20/31    | Side panel 110 Alfa H1-1 L N             | ZPA001/110L/3  | 3-04131-0000   |
| 20/31    | Side panel 110 Alfa K1-1 P N             | ZPA003/110P/3  | 3-04132-0000   |
| 20/31    | Side panel 110 Alfa K1-1 L N             | ZPA003/110L/3  | 3-04133-0000   |
| 20/41    | Side panel 110 Alfa H1 L N               | ZPA001/110L/1  | 7-304064-0000  |
| 20/41    | Side panel 110 Alfa H2 P N               | ZPA002/110P/1  | 7-304065-0000  |
| 20/41    | Side panel 110 Alfa H2 L N               | ZPA002/110L/1  | 7-304066-0000  |
| 20/41    | Side panel 110 Alfa K2 P N               | ZPA004/110P/1  | 7-304069-0000  |
| 20/41    | Side panel 110 Alfa K2 L N               | ZPA004/110L/1  | 7-304070-0000  |
| 20/50    | Winding roller SC800 Al dia. 95mm - 6m   | ZPH126         | 6-014231-0000  |
| 20/60    | Profile for ALFA fabric approach         | ZPH115-1       | 7-303663-0000  |
| 20/80-83 | Holder Alfa 110 Wall-ceiling             | ZPA011/110     | 3-03496-0000   |
| 220-223  | Wall-ceiling safety lock                 | ZPA009         | 3-03483-0000   |
| 20/100   | Cylinder cover dia. 95mm                 | ZPH143         | 6-014237-0000  |
| 20/110   | Insert for shaft end piece – dia. 50 mm  | ZPA017         | 3-03486-9004   |
| 20/120   | Cylinder cover pin - 12mm Fe / Zn        | ZPH129         | 6-013985-0000  |
| 20/130   | Thin-walled Al profile - U, 10x10x1,5    | ZPA013         | 6-011349-0000  |

**Motors (SOMFY) SCREEN ALFA (2-00530-0009)**

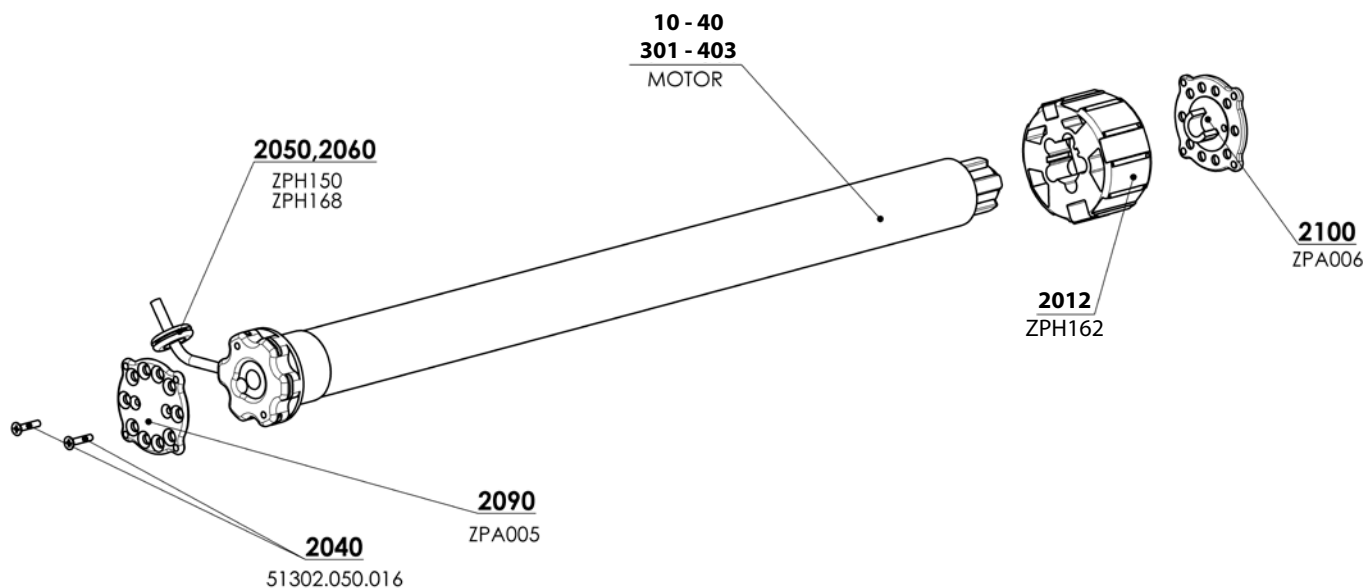
| position | item name                   | business name | drawing number |
|----------|-----------------------------|---------------|----------------|
| 40       | Carrier LT50 HI - dia. 95mm | ZPH162        | 6-014327-0000  |
| 40       | Flat bearing plate          | ZPA005        | 3-03484-9004   |
| 40       | Bearing plate with clip     | ZPA006        | 3-03485-9004   |

**Guide - rail ALFA + LEFT / RIGHT (2-01642-PU11)**

| position | item name                      | business name | drawing number |
|----------|--------------------------------|---------------|----------------|
| 900/20   | End piece VL - 40 mm           | ZPH095/1      | 3-03667-9004   |
| 900/30   | Spring VL ZIP SC800            | ZPH147/1      | 7-303662-0000  |
| 900/40   | Clip VL ZIP SC800              | ZPH099        | 6-013993-0000  |
| 900/50   | Guide profile SC800 for zip v3 | ZPH145        | 6-014155-0000  |

## SCREEN ALFA-ZIP

### Control motor



### Motors (SOMFY) Screen ALFA (2-00530-0009)

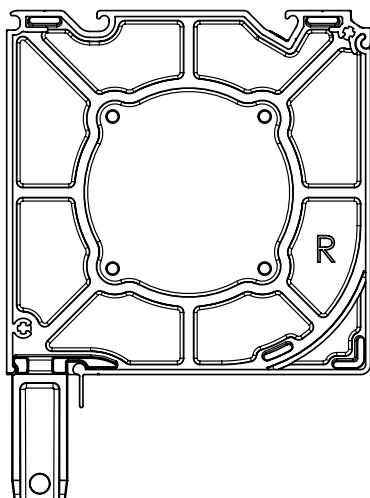
| position | item name                                        | business name | drawing number |
|----------|--------------------------------------------------|---------------|----------------|
| 10       | Motor Geiger Solid Line Zip AIR 6/16             | PR0790/06     | 6-015903-0006  |
| 11       | Motor Geiger Solid Line Zip AIR 10/16            | PR0790/10     | 6-015903-0010  |
| 12       | Motor Geiger Solid Line Zip AIR 20/16            | PR0790/20     | 6-015903-0020  |
| 301-303  | Motor MAESTRIA +50 IO                            | ZP0084/1      | 6-012538-xxxx  |
| 401-403  | Maestria +50 WT                                  | ZP0093/06     | 6-015258-xxxx  |
| 2040     | Screw 4.8x19 DIN 7982, countersunk, Philips head | 51302.050.016 | 6-013928-0000  |
| 2050     | Cable grommet RUBBER dia. 7                      | ZPH150        | 6-014339-0000  |
| 2060     | Cable collar 300x4.8 - BLACK                     | ZPH168        | 6-014438-0000  |
| 2090     | Bearing plate - flat                             | ZPA005        | 3-03484-9004   |
| 2100     | Bearing plate with clip                          | ZPA006        | 3-03485-9004   |
| 2012     | Carrier LT50 HI - dia. 95mm                      | ZPH162        | 6-014327-0000  |



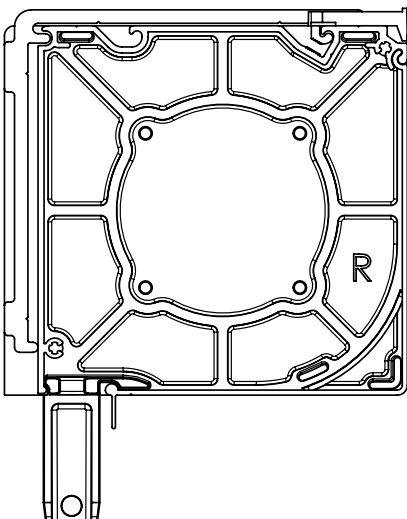
## SCREEN ALFA PLUS-ZIP

### Technical specification

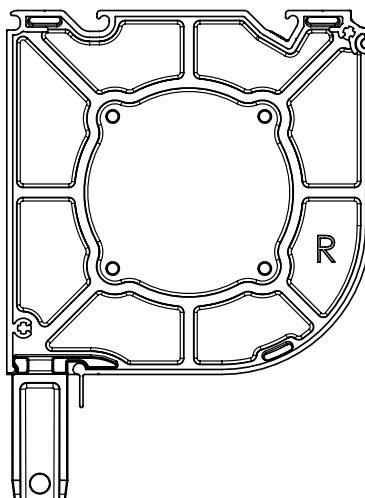
#### Upper profile – square (2-01578)



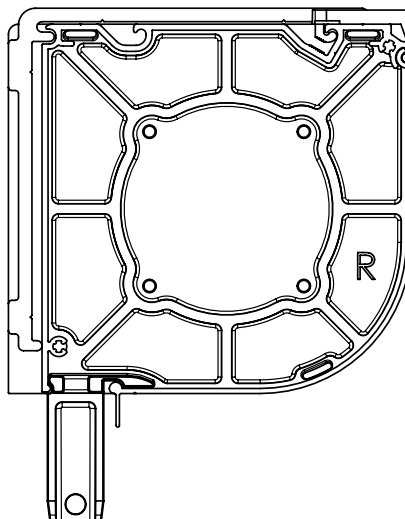
#### Upper profile – square – with wider side piece



#### Upper profile – quarter-round (2-01579)



#### Upper profile – quarter-round – with wider side piece

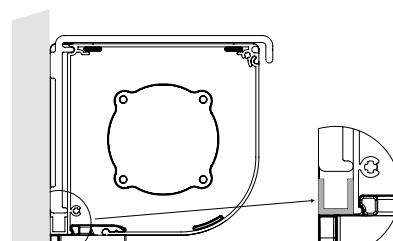


### Rear parts of the box

#### U-section – horizontal

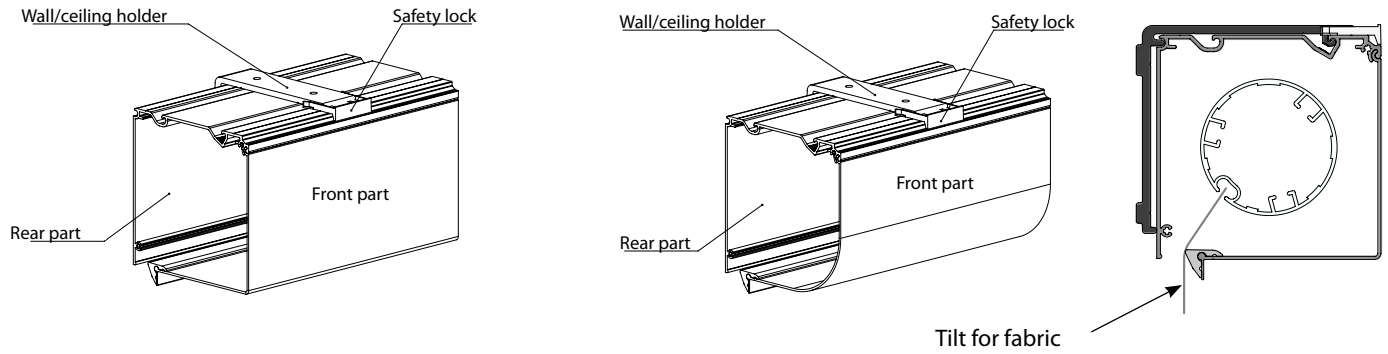
The gap between the box and the wall can be filled horizontally by a U-section having the dimensions of  $10 \times 10 \times 10$  mm, where the length is determined by the box width.

Use: for guide rails A839 and A829



U-profile width - horizontal

## Wall/ceiling holder



**Material:** extruded aluminium with powder coating finish

For the installation of all sizes of the upper profile independent of the guide rails:

### Standard number of wall/ceiling holders:

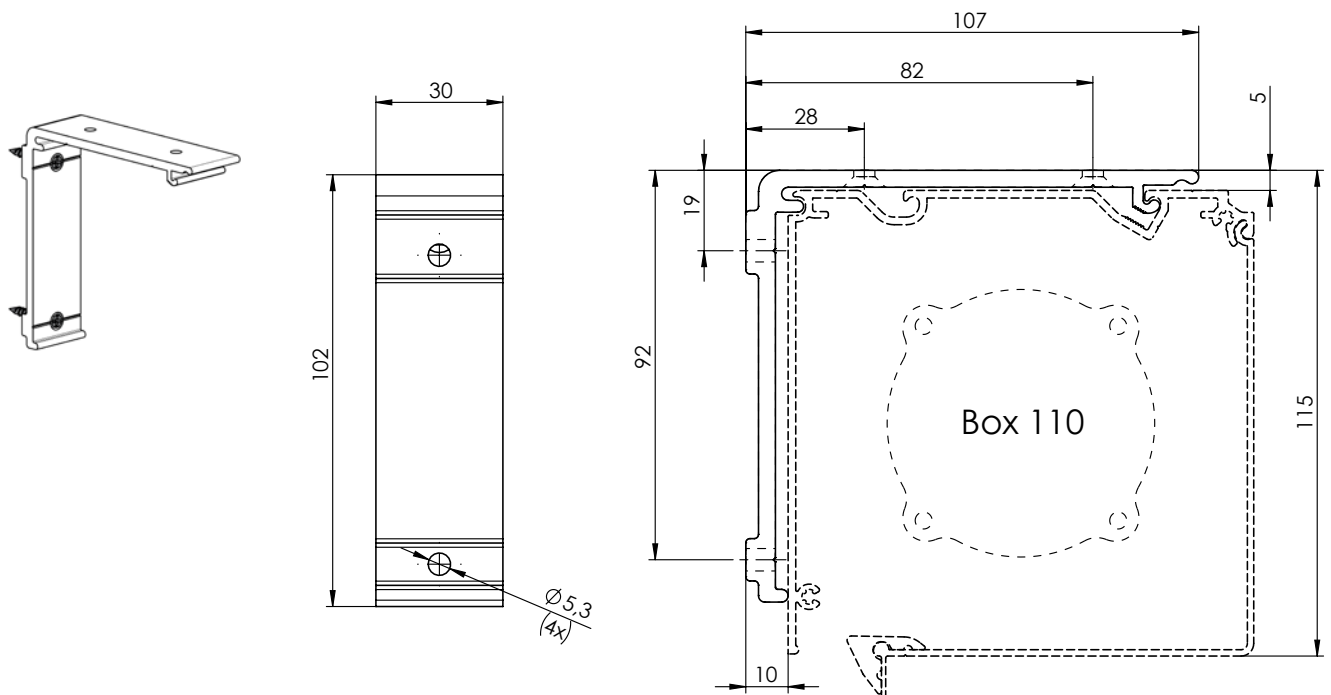
| Roller blind width (mm) | Box 110 |
|-------------------------|---------|
| 0-1500                  | 2ks     |
| 1501 - 3000             | 3ks     |
| 3001 - 4500             | 4ks     |
| 4501 - 5000             | 5ks     |

If a wall/ceiling holder is used, we recommend using guide rail type A839.

**Wall/ceiling holder width:** 30 mm

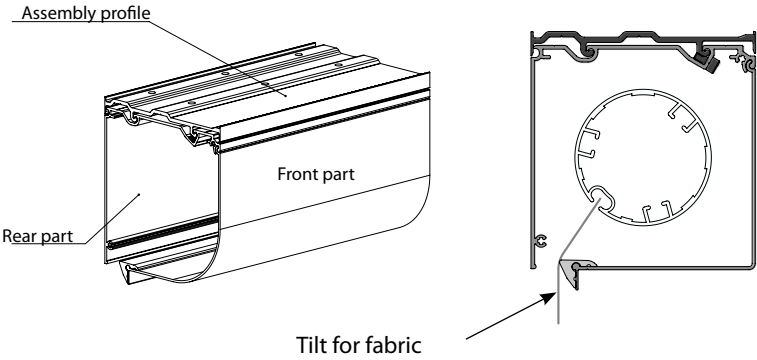
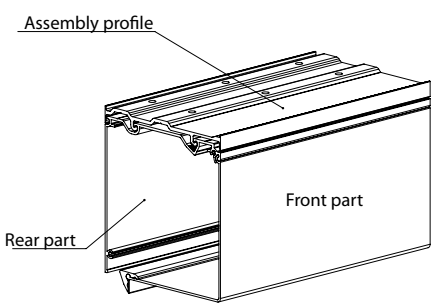
Shifts the rear side of the upper profile as well as guide rail holders by 10 mm to the front.

## Wall/ceiling holder

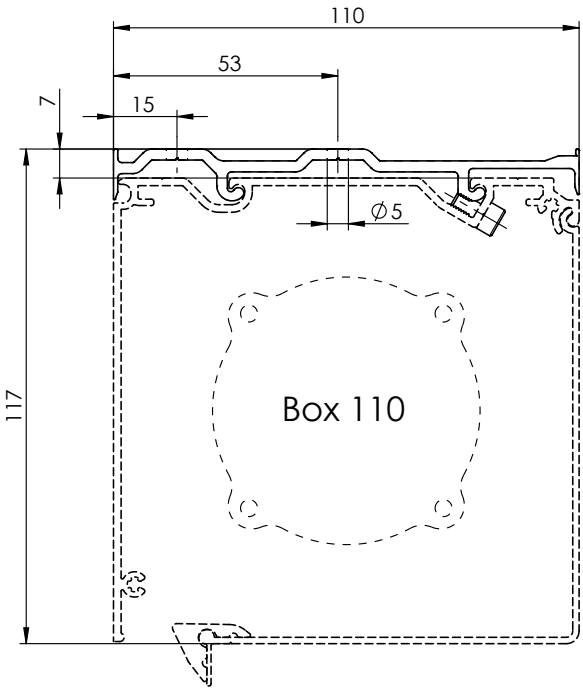
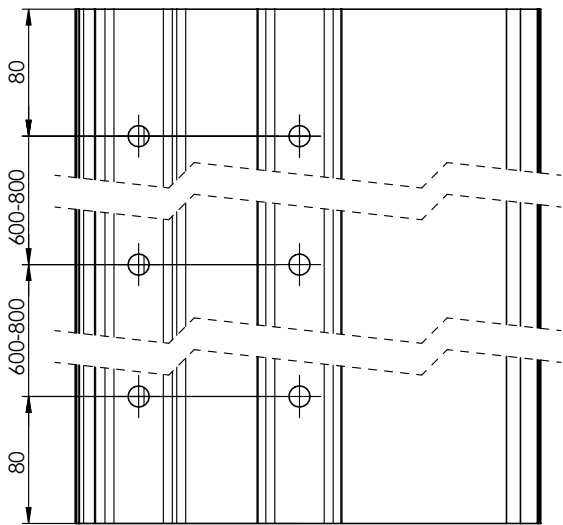




Holder for pergola (assembly profile)



Holder for pergola (assembly profile)  
Recommended opening distance.



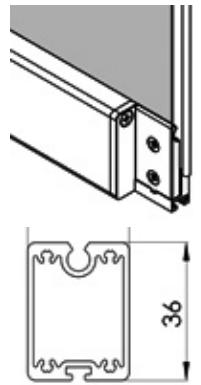
**Bottom rail (6-015158-0000)**

The bottom rail consists of a two-piece, left and right sliding block and an extruded aluminium profile with a powder-coated finish.

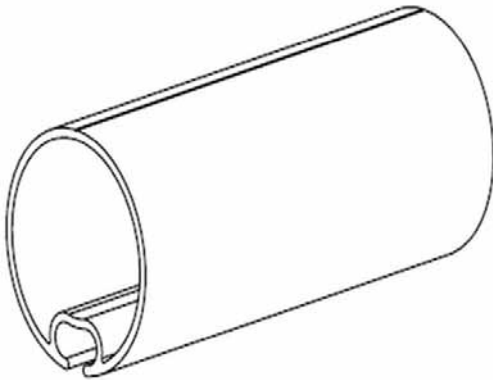
The profile has:

- A groove for screw-free attachment of the fabric using a canvas rod of Ø 3 mm
- A chamber for a strengthening strip
- A slot at the bottom to insert a rubber stopper (there is also the option to select a brush strip)

The two-piece sliding block ensures the fabric is correctly tightened.

**Roller tube, dia. 95 mm**

(6-014231-0000)



Material: galvanised steel for tubes Ø 95 mm.

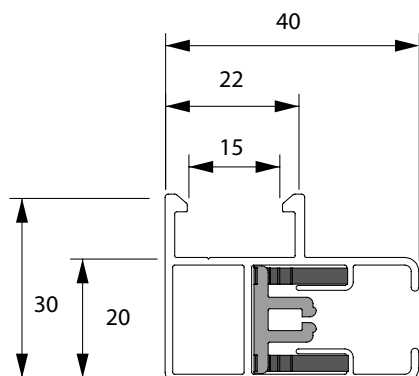
With a fabric groove for attaching the fabric using a plastic rod Ø 6 mm.

## Guide rails for motor

**Material:** extruded aluminium with powder coating finish

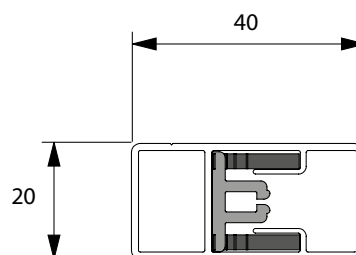
### Guide rail A839 (7-303494)

- standard guide for attachment clips or small distances relative to the side (10 mm).



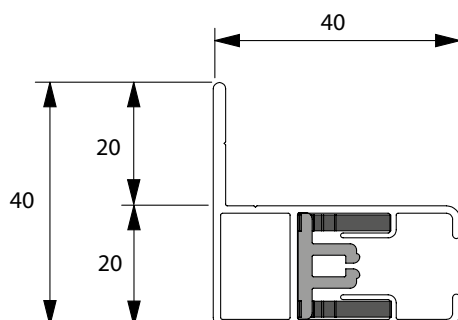
### Guide rail A830 (7-303492)

- flat guide rails without attachment clips.



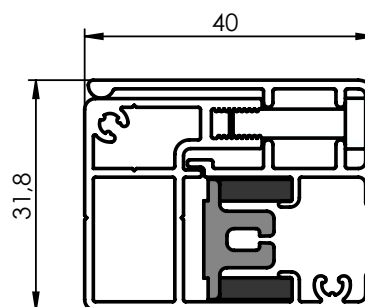
### Guide rail A838 (7-303493)

- guide rail with a short mounting flange.



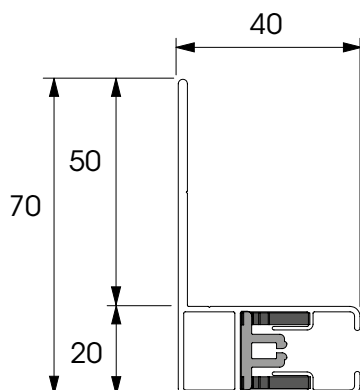
### Guide rail A840-1 (7-304469-0000 + 7-304468-0000)

- not suitable for mounting on a frame in combination with a wall/ceiling holder  
- folded guide rail, not for crank



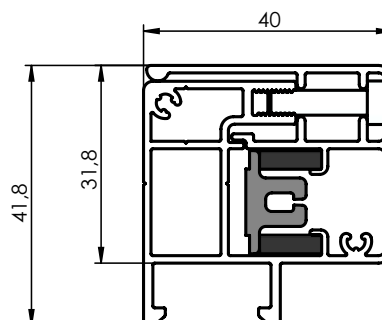
### Guide rail A837 (6-018856)

-- guide rail with a long mounting flange.



### Guide rail A849 (7-304470-0000+7-304468-0000)

- folded guide rail, not for crank  
- eliminates the 10 mm gap when using the wall-ceiling bracket, can be used in combination with mounting blocks



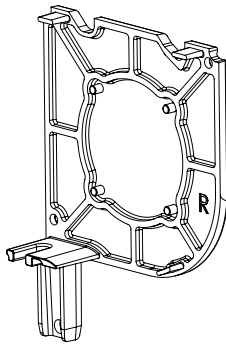
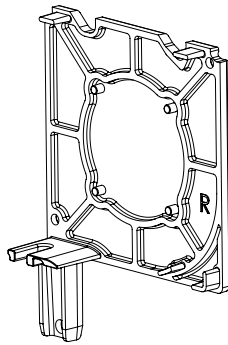
### Guide rails - frontway/sideway drilling (200 mm on both sides from the edges)

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| up to a height of 1500 mm       | 2 openings (on the edges)                                |
| more than 1500 mm up to 3000 mm | 3 openings (2 openings on the edges + 1 centre opening)  |
| from 3000 mm up to 4500 mm      | 4 openings (2 openings on the edges + 2 centre openings) |
| from 4500 mm                    | 5 openings (2 openings on the edges + 3 centre openings) |

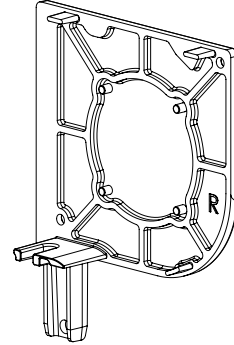
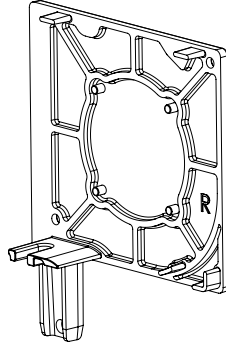
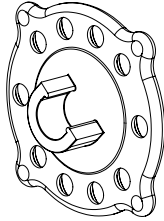
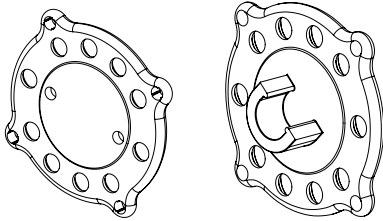
**Side pieces:**

- Basic side piece:**
- aluminium side piece with pins – die cast,
  - aluminium side piece complete with universal bearing plates made from black synthetic material.

Side panel for mounting profile



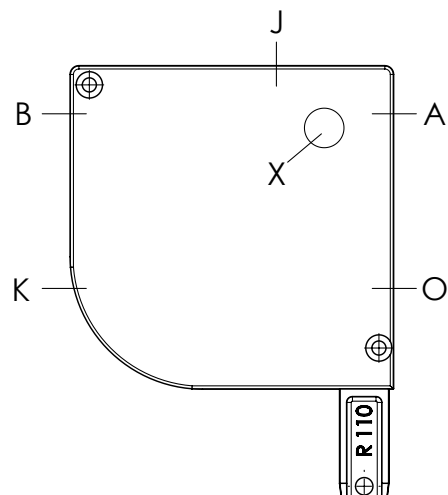
Side panel for wall-ceiling bracket

**Universal bearing plate:****Location of controls – output**

| Type of installation | Control | O   | A   | X   | B   |
|----------------------|---------|-----|-----|-----|-----|
|                      |         | 110 | 110 | 110 | 110 |
| A-AE                 | Motor   | x   | x   | x   |     |
| B-BE                 | Motor   |     |     | x   | x   |

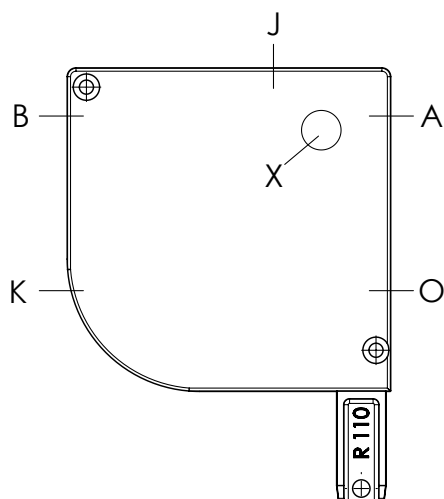
| Type of installation | Control | K   | J   |
|----------------------|---------|-----|-----|
|                      |         | 110 | 110 |
| A-AE                 | Motor   |     | x   |
| B-BE                 | Motor   | x   | x   |

|   |                                                                              |
|---|------------------------------------------------------------------------------|
| x | Possible                                                                     |
| x | Only possible with square boxes                                              |
| J | To be installed to ceiling/head-sill or inside, because of water penetration |
| o | Not possible                                                                 |

**Operating outlets**

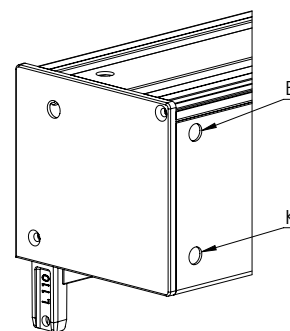
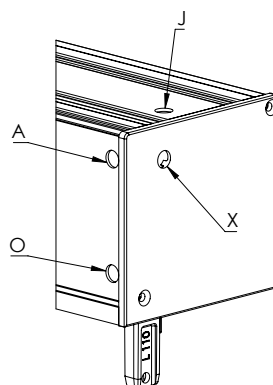
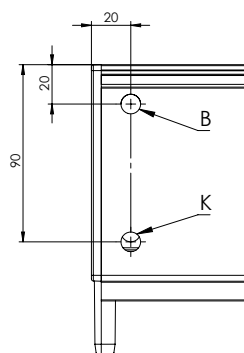
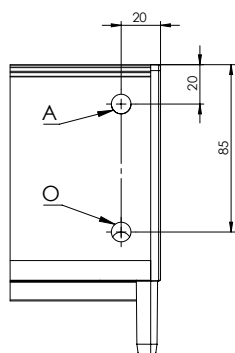
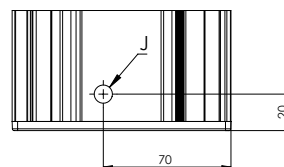
**Control – motor**

It is possible to choose the cable location



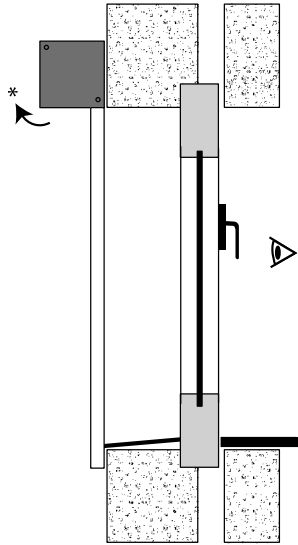
left, terminal X (from side piece) only for box 110

right, terminal X (from side piece) only for box 110



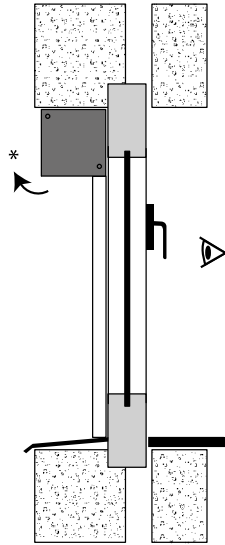
## Types of installation

### Type A-AE (on the wall)

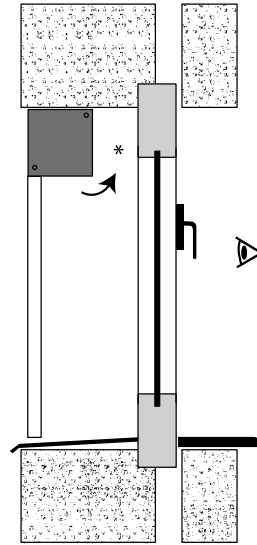


\* space for box opening

### Type A-AE (into the reveal)

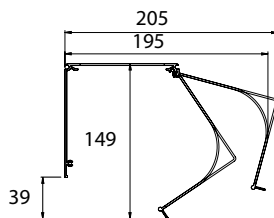


### Type B-BE (into the reveal) \*



- A – outward winding "A"  
(standard)
- AE – outward winding "AE"  
(lighter exterior)
- B – inward winding "B"
- BE – inward winding "BE"  
(lighter exterior)

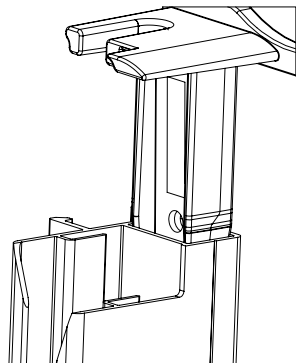
Type 110



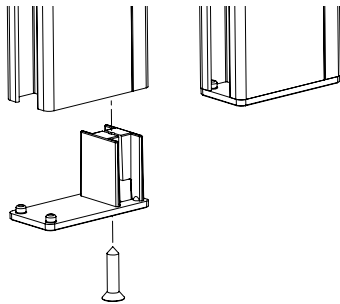
Pin guide assembly

The box is installed in guide rails, and the rails move over the bracket pins.

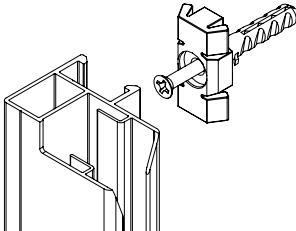
Pin guide assembly



End stop



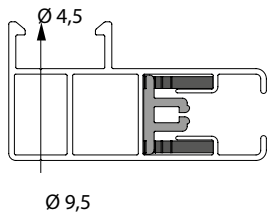
Holders for guide rails A839



With black Al end stop; thickness 2 mm.

Certain guide rails may be supplied with predrilled openings in the sides.

Drilling on the front:



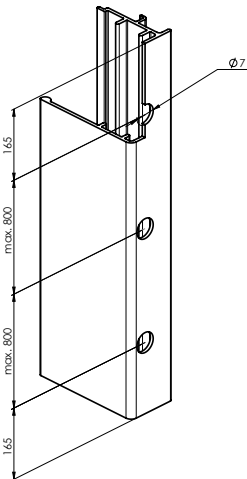
Guide rails for drilled openings on the front side:

| Drilling  | A839 | A830 | A838 | A837 | A865 | A866 |
|-----------|------|------|------|------|------|------|
| Side face | x    | x    | -    | -    | x    | x    |

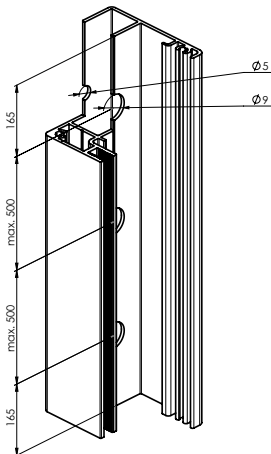
Guide rails for drilled openings on the front side:

A840-1: drilling on the front/sideways

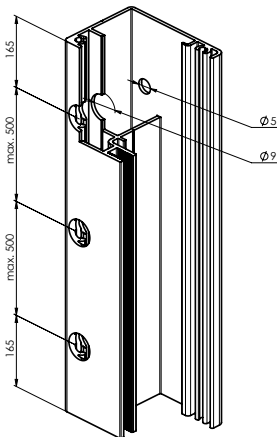
A840-1 drilling of the side guide channel cup



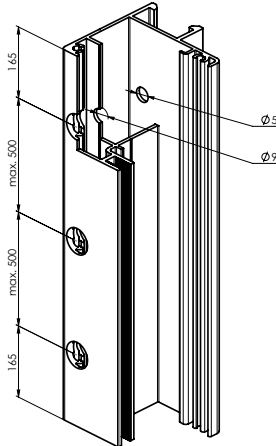
A840-1b sideways drilling



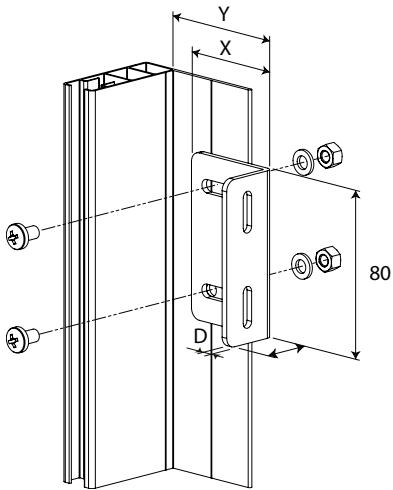
A840-1c front drilling



A849:drilling on the front





**Holder for guide rails A838, A837:**

| <b>X × H × D</b> | <b>X</b> | <b>Y</b> | <b>drawing number</b> |
|------------------|----------|----------|-----------------------|
| 50 × 30 × 3      | 50       | 50–65    | 6-014549-0000         |
| 60 × 30 × 3      | 60       | 60–75    | 6-014550-0000         |
| 100 × 30 × 3     | 100      | 100–115  | 6-014552-0000         |
| 130 × 30 × 3     | 130      | 130–145  | 6-014542-0000         |

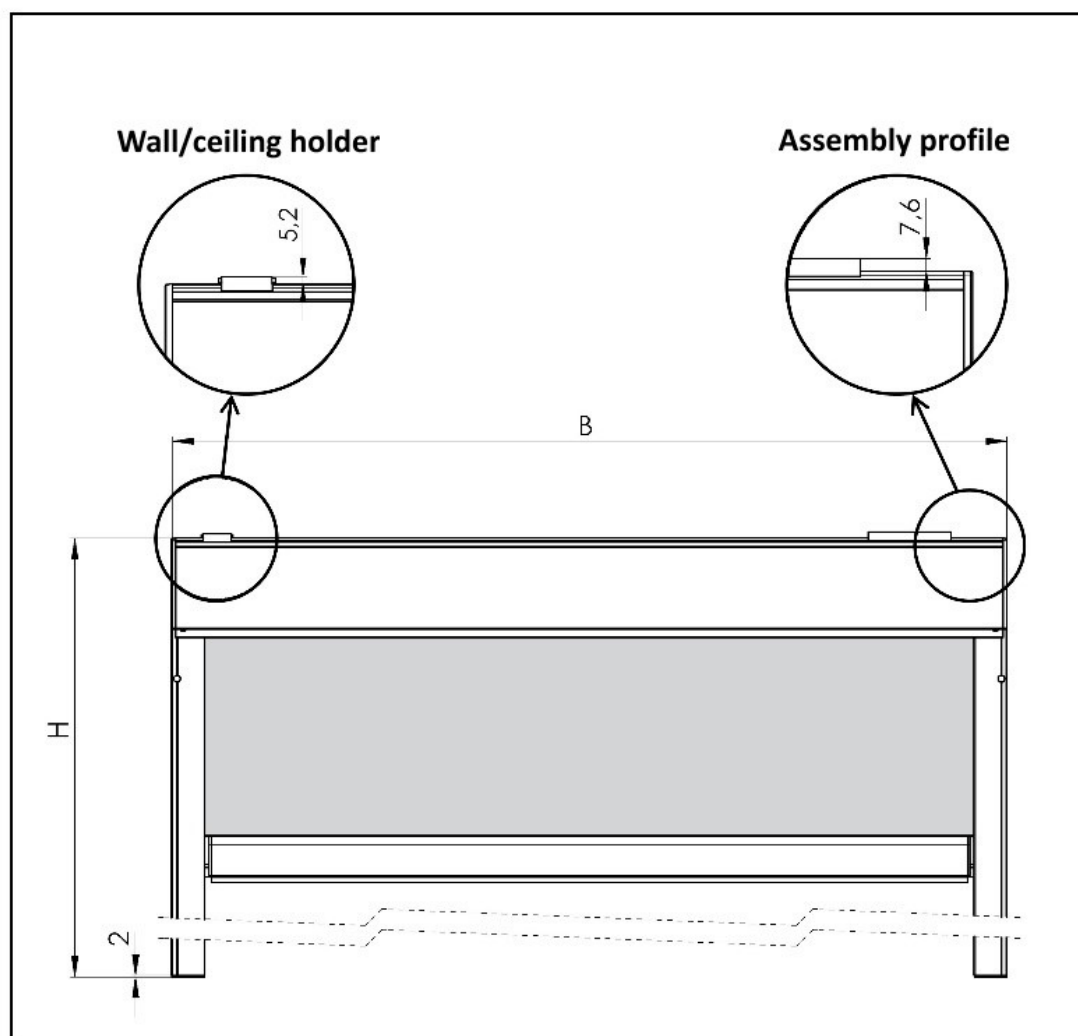
## SCREEN ALFA PLUS-ZIP

### Taking measurements of the ALFA PLUS-ZIP screen roller shutters

Final width B = distance between side pieces.

Final height H = height of the box and guide rail end pieces (thickness of guide rail end pieces = 3 mm) exclusive of the wall/ceiling holder or exclusive of the assembly profile.

More information in the separate document **Measurement and assembly instructions**.



## Assembly of the ALFA PLUS-ZIP screen roller shutters

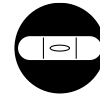
There are several methods of roller blind installation depending on the installation situation.

Note: For the self-supporting version of the screen roller shutter assembly, please refer to Variant A, Method 2.

### Variant A: Using the wall/ceiling holders

**Method 1.** Attaching the box using wall/ceiling holders, sliding the guide rails on the side piece pin, and securing the guide rails by bolts.

**Method 2.** Placing the complete assembly of the box and guide rails in or above the window opening and securing by bolts (used where there is insufficient space for sliding the guide rails on the side piece pin, for example due to the presence of a window sill, or for the self-supporting version of the screen roller shutter).



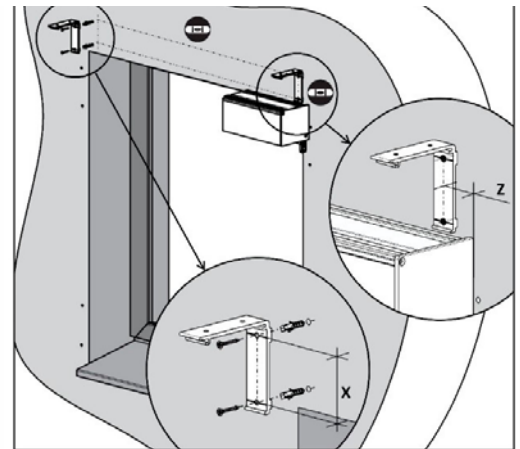
spirit level

**METHOD 1.** Attaching the box using wall/ceiling holders, sliding the guide rails on the side piece pin, and securing the guide rails by bolts.

| Box type | X     |
|----------|-------|
| 90       | 52 mm |
| 110      | 73 mm |

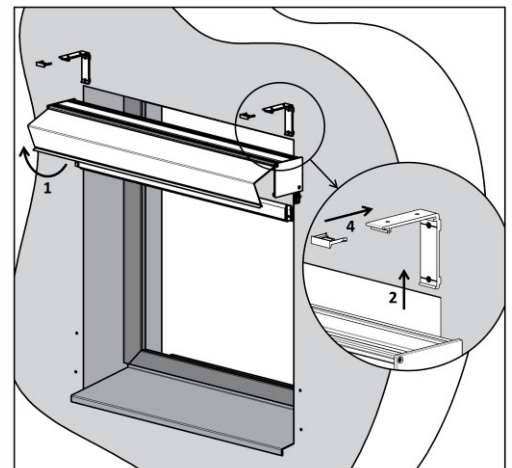
#### Step 1: Drilling the holes for the wall/ceiling holders

1. Place the wall/ceiling holders to the assembly surface. Use the upper holes for ceiling mounting, and the rear holes for wall mounting.
2. The box must be perfectly horizontal, and therefore make sure whether the wall/ceiling holders are properly aligned. To do this, use a tube spirit level and a plumb line, or another suitable tool.
3. The wall/ceiling holders must be installed 40–100 mm from the box sides. Any additional holders are to be installed evenly distributed along the box width and they are intended to prevent arching of wider boxes.



#### Step 2: Installing the box to the wall/ceiling holder

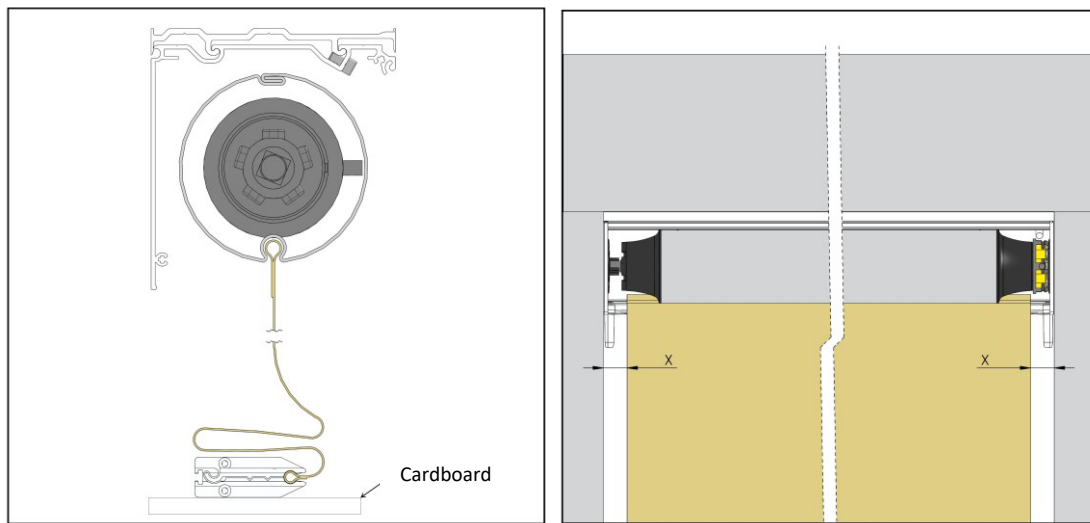
1. Remove the front cover of the box.
2. Fit the box to the wall/ceiling holders.
3. Make sure the box is correctly fitted to all holders.
4. Fit and push the safety locks; they must click to correct position.



**Step 3: Centring the fabric in the box**

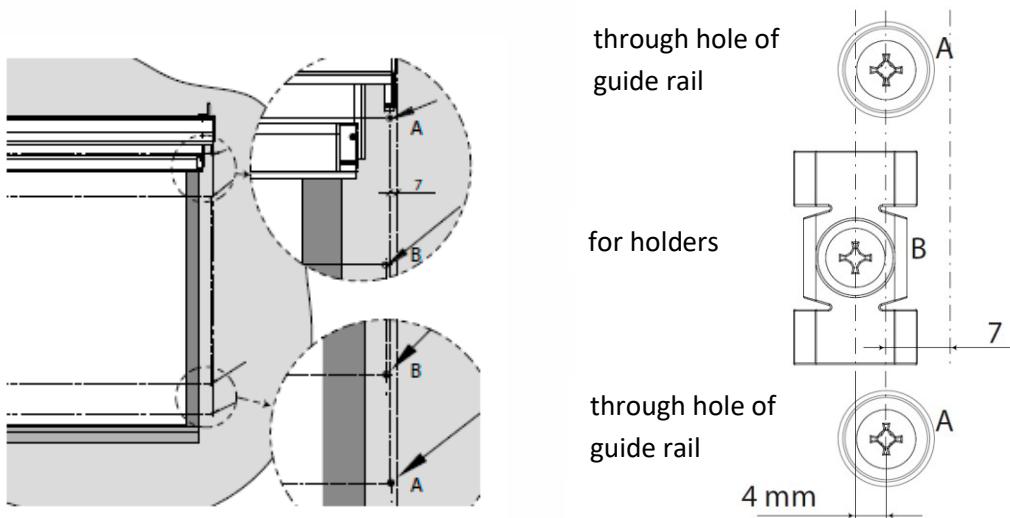
1. Unroll the fabric completely from the roller (the fabric remains slid in the roller groove). Doing this, prevent soiling of the fabric and damage to the lower profile.
2. Centre the fabric in the roller so that it is in the centre of the box (not in the centre of the roller).
3. Check whether the fabric rolls up evenly → perform 2–3 control cycles. (CAUTION! End positions of the motor have not been set yet!)

End the check by moving the lower rail approx. 15 cm under the box.

**Step 4: Drilling holes for the guide rails****Guide rails A839, A829:**

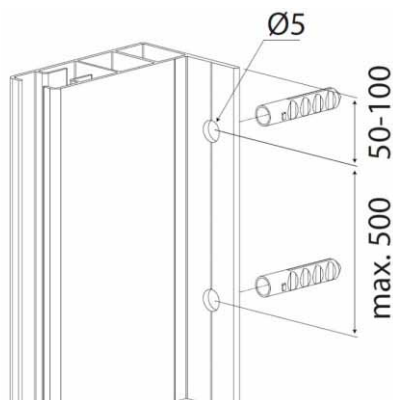
1. Indicate holes to be drilled to the wall or another assembly surface.
2. Use predrilled guide rails to do this.
3. A indicates holes for attaching the guide rails (see Fig. below).
4. B indicates holes for the holders (see Fig. below).

\*A840-1 - see assembly instruction



**Guide rails A830, A820:**

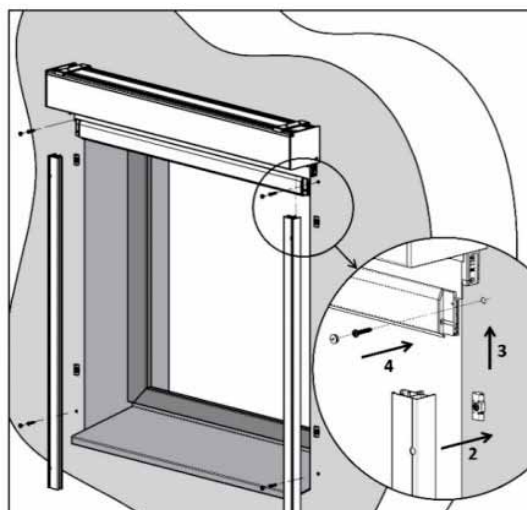
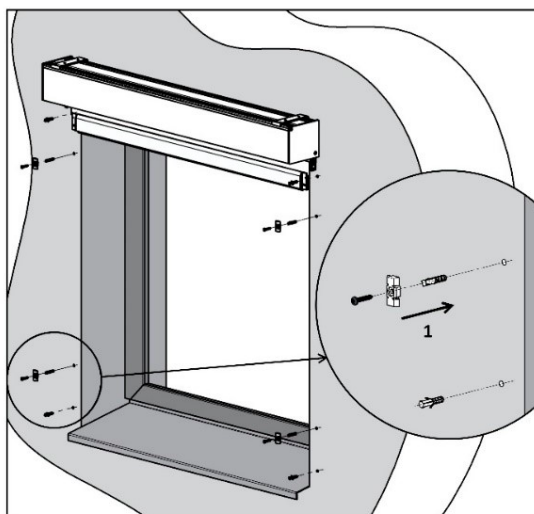
Use predrilled holes in the rails to attach the guide rails A830, A820.

**Guide rails A838, A828, A837:**

\*A840-1 - see assembly instruction

**Step 5: Installing the guide rails****Guide rails A839, A829:**

1. Attach the holders to the assembly surface.
2. Click the guide rails to the holders head-on.
3. Slide the guide rails to the side piece pins and make sure whether the bottom slat end pieces fit properly in the guide rail slots and whether the fabric zipper fits in the plastic insert in the bottom slat.
4. Attach the guide rails to the assembly surface through holes A.

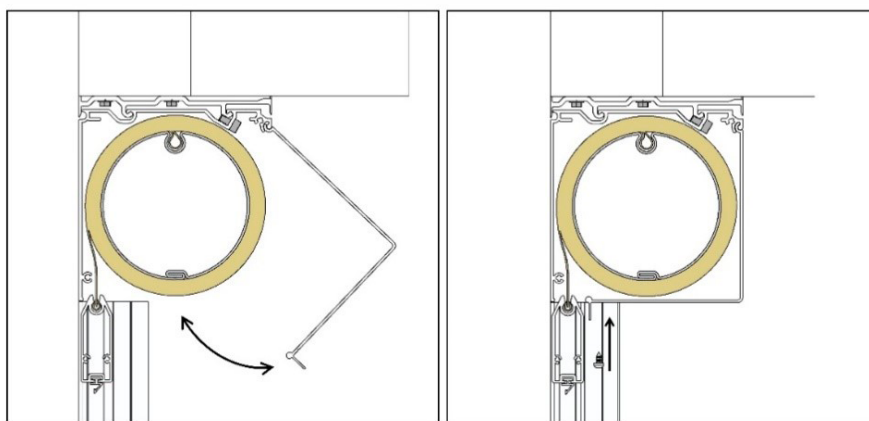
**Guide rails A830, A820, A838, A828, A837:**

Slide the guide rails on the side piece pins and attach them to the assembly surface through holes A.

### Step 6: Attaching the front cover

Reinstall the box front cover.

After the installation of the roller shutter it is necessary to remove the sidewall remove the cable clamp.



### Step 7: Adjusting the motor

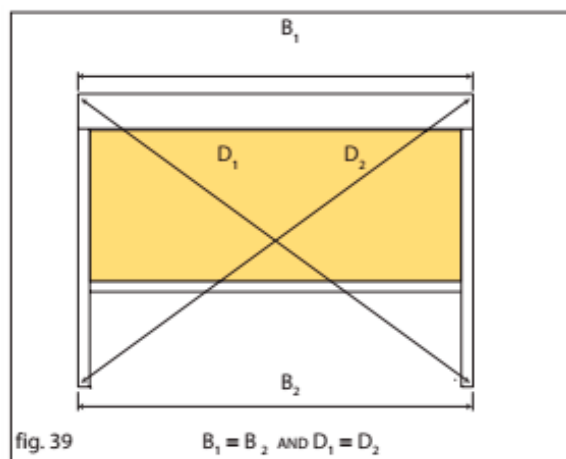
Set the end positions of the motor depending on the motor type (see manuals for motors).

### Step 8: Checking the assembly

Always make sure the roller blind is properly installed:

1. First, check **horizontality** of the box.
2. Check whether both guide rails are parallel to one another and, at the same time, perpendicular to the box.
3. Measure and compare the diagonals accurate to the nearest millimetre.

If the box and guide rails are not installed correctly, the bottom slat will wind into the box at an angle, causing the fabric to crinkle or pull out from the plastic insert in the guide rail.



**Method 2.** Placing the complete assembly of the box and guide rails in or above the window opening and securing by bolts (used where there is insufficient space for sliding the guide rails on the side piece pin, for example due to the presence of a window sill or for the self-supporting version of the screen roller shutter).

### Step 1: Drilling the holes for the wall/ceiling holders

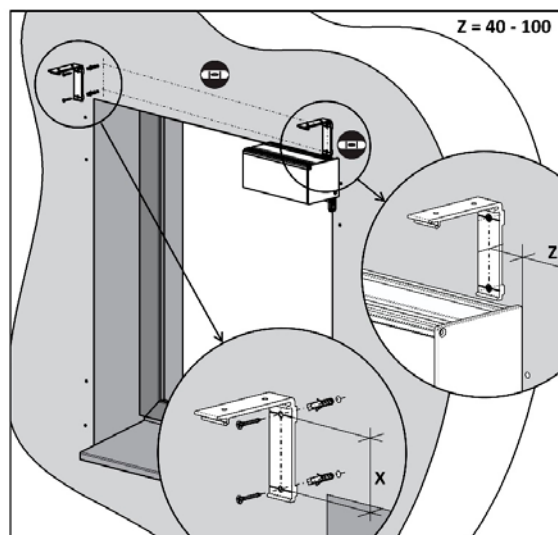
1. Place the wall/ceiling holders to the assembly surface. Use the upper holes for ceiling mounting, and the rear holes for wall mounting.
2. The box must be perfectly horizontal, and therefore make sure whether the wall/ceiling holders are properly aligned. To do this, use a tube spirit level and a plumb line, or another suitable tool.
3. The wall/ceiling holders must be installed 40–100 mm from the box sides. Any additional holders are to be installed evenly distributed along the box width and they are intended to prevent arching of wider boxes.



spirit level

| Box type | X     |
|----------|-------|
| 90       | 52 mm |
| 110      | 73 mm |

For the self-supporting version, skip Step 1 and continue to Step 2.



## Step 2: Drilling the holes for the guide rails

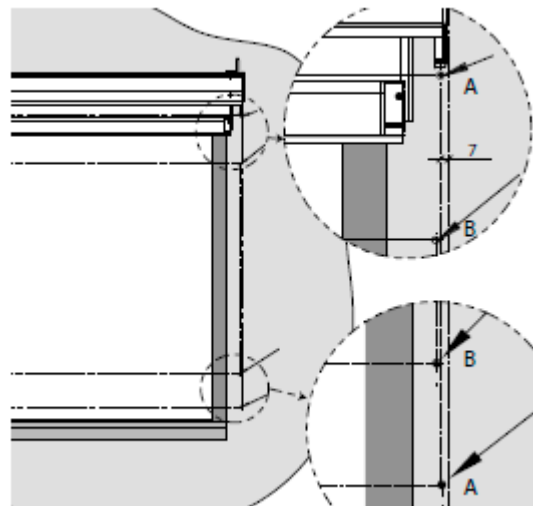
### Guide rails A839, A829:

1. Indicate holes to be drilled to the wall or another assembly surface. Use predrilled guide rails to do this.
2. A indicates holes for attaching the guide rails (see Fig. below).
3. B indicates holes for the holders (see Fig. below).

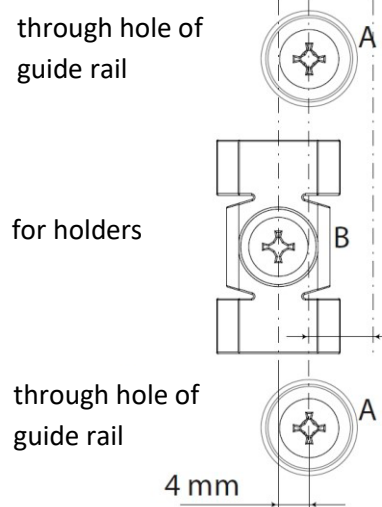
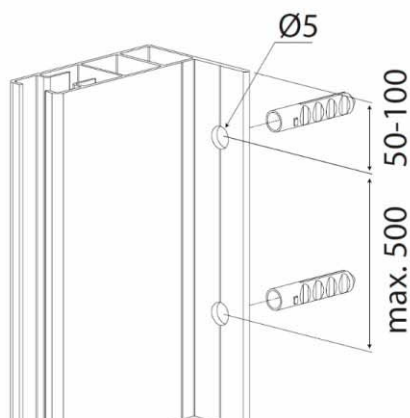
Attach the holders to the assembly surface.

### Guide rails A830, A820:

Use predrilled holes in the rails to attach the guide rails A830, 820.



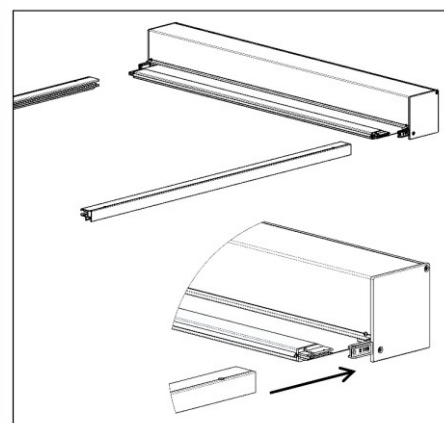
### Guide rails A838, 828, A837:



\*A840-1 – see assembly instruction

## Step 3: Sliding the guide rails on the side piece pins

1. Place the roller blind box on the cardboard packaging (take care not to damage the surface treatment).
2. Then slide the predrilled guide rails to the side piece pins.
3. Make sure whether the bottom slat end pieces fit properly in the guide rail slots and whether the fabric zipper fits in the plastic insert in the guide rail.

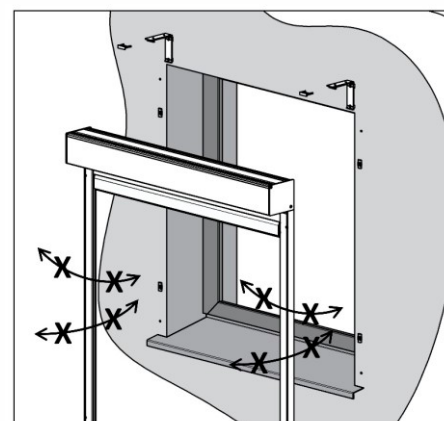


## Step 4: Fitting the box and guide rails

Lift the box with the guide rails. Do this in cooperation with at least two other persons depending on the box width. Place the complete assembly to the window opening.



**Caution! Make sure not to break off the pins by sliding the guide rails too forward, backward, or sideward.**



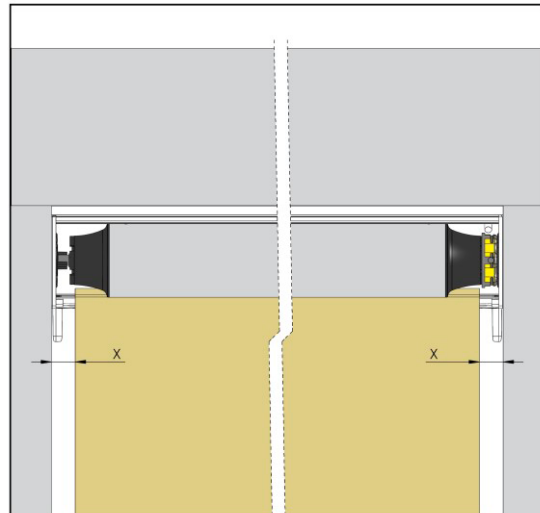
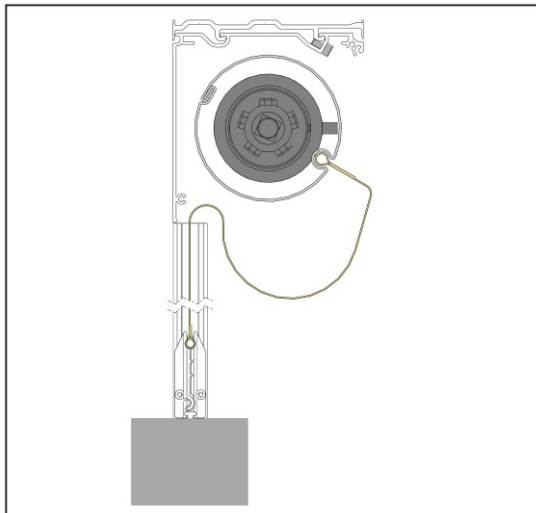


### Step 5: Centring the fabric in the box

1. Unroll the fabric completely from the roller (the fabric remains slid in the roller groove). Doing this, prevent soiling of the fabric and damage to the lower profile.
  2. Centre the fabric in the roller so that it is in the centre of the box (not in the centre of the roller).
  3. Check whether the fabric rolls up evenly → perform 2–3 control cycles. (CAUTION! End positions of the motor have not been set yet!)
- End the check by moving the lower rail approx. 15 cm under the box.

### Step 6: Attaching the box to the wall/ceiling holders, and attaching the guide rails

1. Fit the box to the wall/ceiling holders.
2. Make sure the box is correctly fitted to all holders.
3. Fit and push the safety locks; they must click to correct position.
4. For guide rails A839, 829: click them to the holders head-on and attach to the assembly surface through holes A.
5. For guide rails A830, 820, A838, A837, A828: attach them to the assembly surface through holes A.



### Step 7: Adjusting the motor

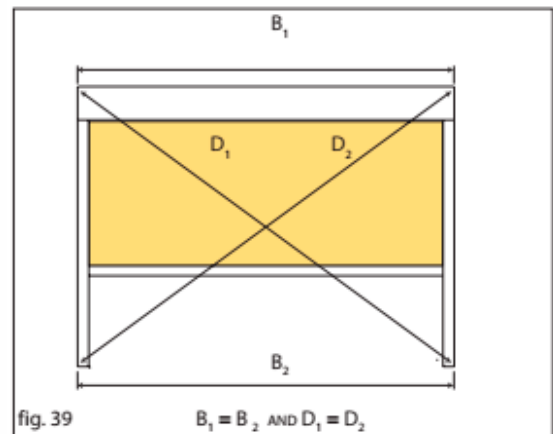
Set the end positions of the motor depending on the motor type (see manuals for motors).

### Step 8: Checking the assembly

Always make sure the roller blind is properly installed:

1. First, check **horizontality** of the box.
2. Check whether both guide rails are parallel to one another and, at the same time, perpendicular to the box.
3. Measure and compare the diagonals accurate to the nearest millimetre.

If the box and guide rails are not installed correctly, the bottom slat will wind into the box at an angle, causing the fabric to crinkle or pull out from the plastic insert in the guide rail.



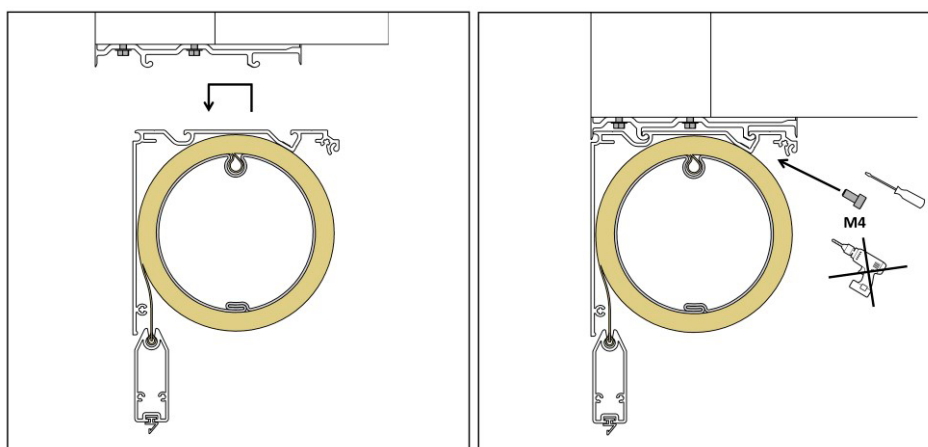
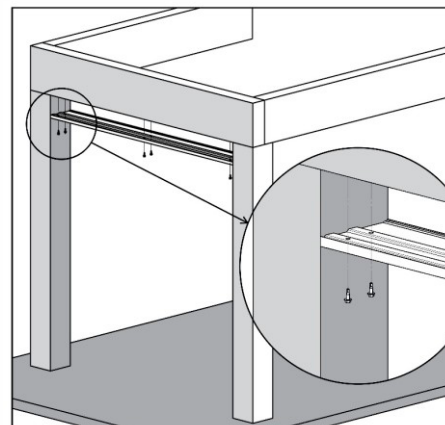
## Variant B: Using the assembly profile

### Step 1: Attaching the profile

1. Place the profile to the assembly surface and indicate the spots according to the predrilled holes. **The assembly surface must be perfectly horizontal!**
2. Predrill the holes according to the fasteners used and attach the assembly profile.

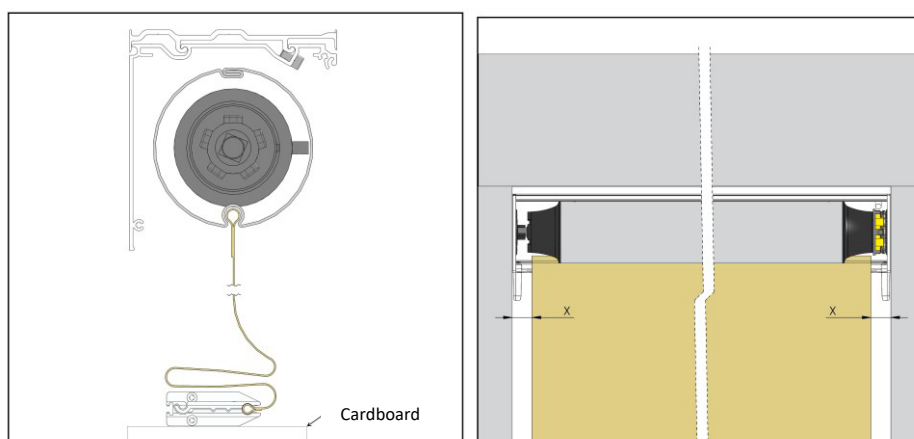
### Step 2: Installing the box to the assembly profile

1. Remove the front cover of the box.
2. Fit the box to the assembly profile.
3. Make sure the box is correctly fitted to both locks throughout its length.
4. Drive the provided M4 bolts to predrilled holes in the box.



### Step 3: Centring the fabric in the box

1. Unroll the fabric completely from the roller (the fabric remains slid in the roller groove). Doing this, prevent soiling of the fabric and damage to the lower profile.
  2. Centre the fabric in the roller so that it is in the centre of the box (not in the centre of the roller).
  3. Check whether the fabric rolls up evenly → perform 2–3 control cycles. (CAUTION! End positions of the motor have not been set yet!)
- End the check by moving the lower rail approx. 15 cm under the box.



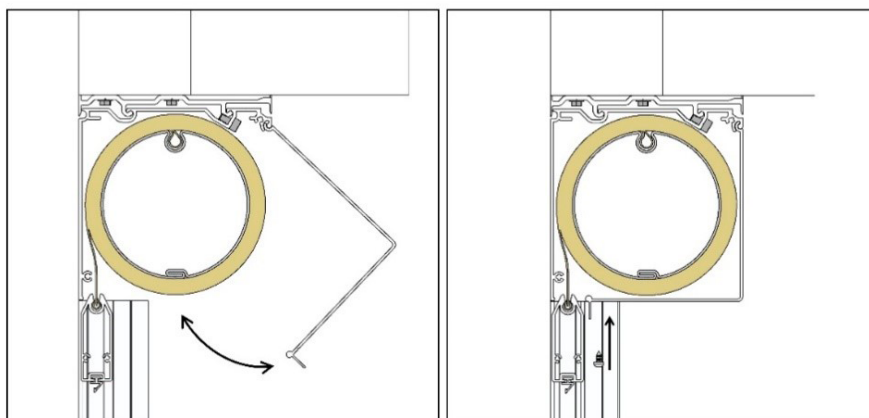
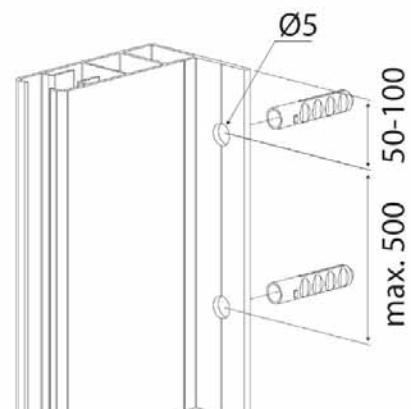
**Step 4: Attaching guide rails**

1. Slide the guide rails to the side piece pins.
2. Make sure whether the bottom slat end pieces fit properly in the guide rail slots and whether the fabric zipper fits in the plastic insert in the guide rail.
3. Fasten the rails with bolts

**Step 5: Attaching the front cover**

Reinstall the box front cover.

After the installation of the roller shutter it is necessary to remove the sidewall remove the cable clamp.

**Step 6: Adjusting the motor**

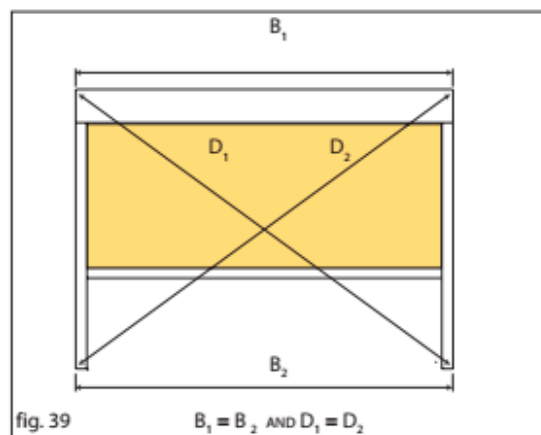
Set the end positions of the motor depending on the motor type (see manuals for motors).

**Step 7: Checking the assembly**

Always make sure the roller blind is properly installed:

1. First, check **horizontality** of the box.
2. Check whether both guide rails are parallel to one another and, at the same time, perpendicular to the box.
3. Measure and compare the diagonals accurate to the nearest millimetre.
- 4.

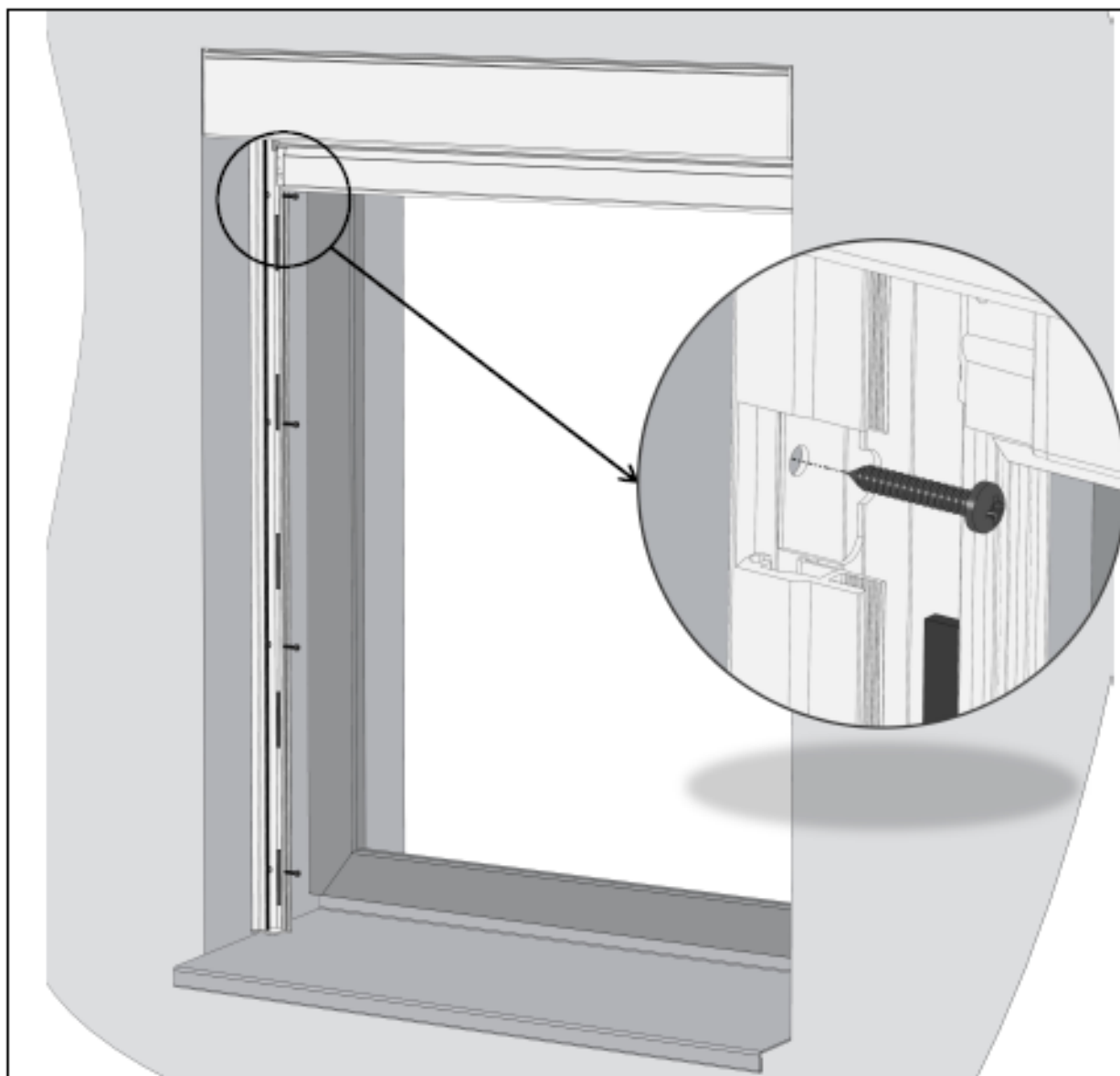
If the box and guide rails are not installed correctly, the bottom slat will wind into the box at an angle, causing the fabric to crinkle or pull out from the plastic insert in the guide rail.



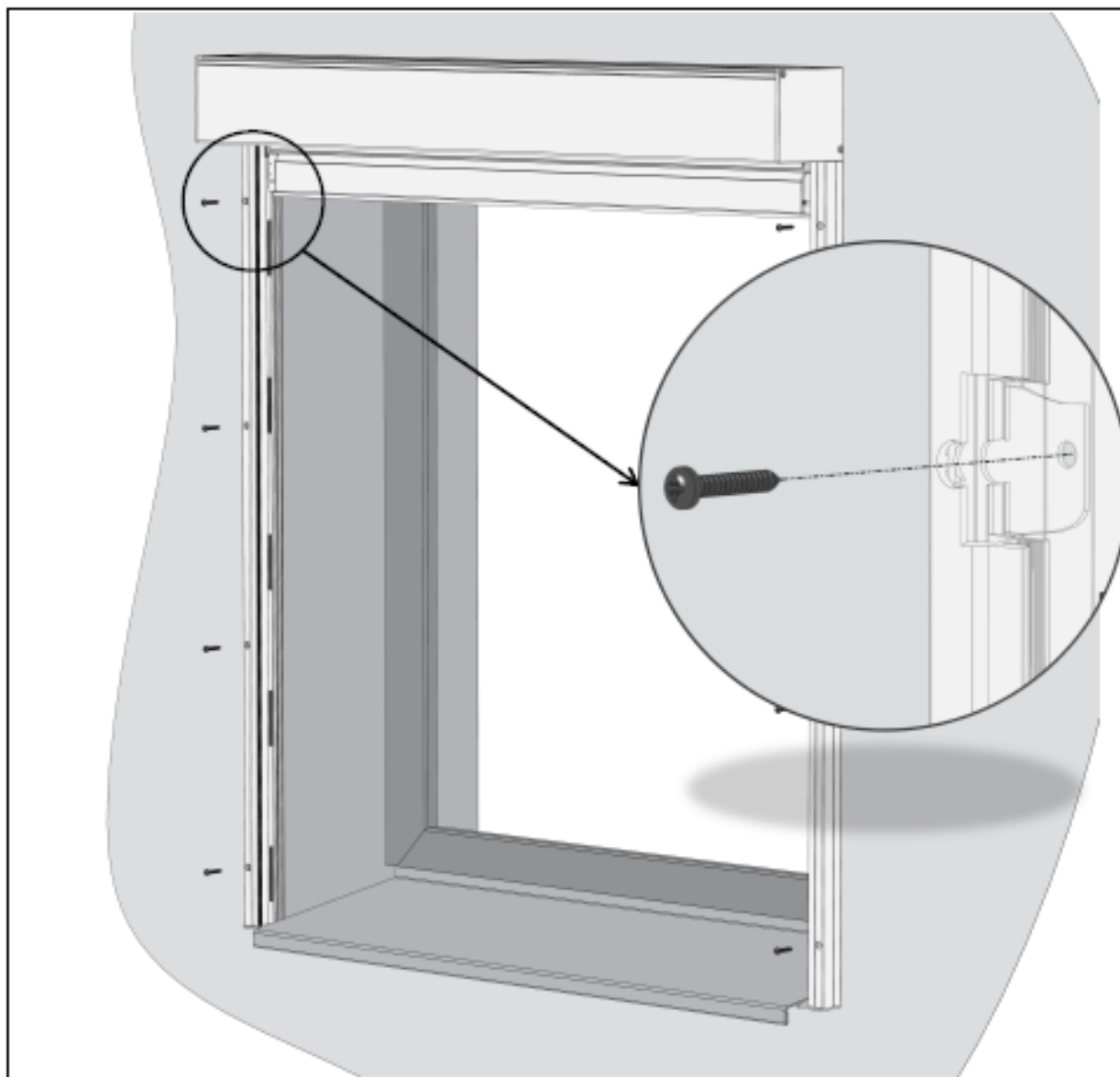
## \* Assembly – sectional guide rail A840-1

### 1. Assembling the guide rail

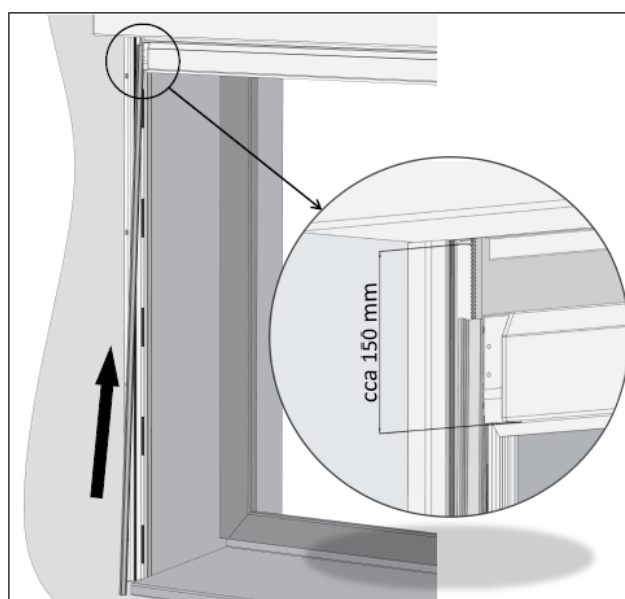
#### 1.a Side assembly of the guide rail



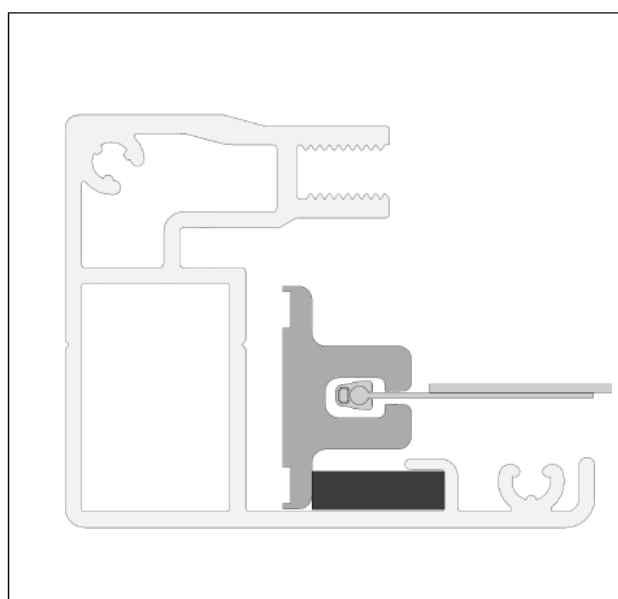
## 1.b Front assembly of the guide rail



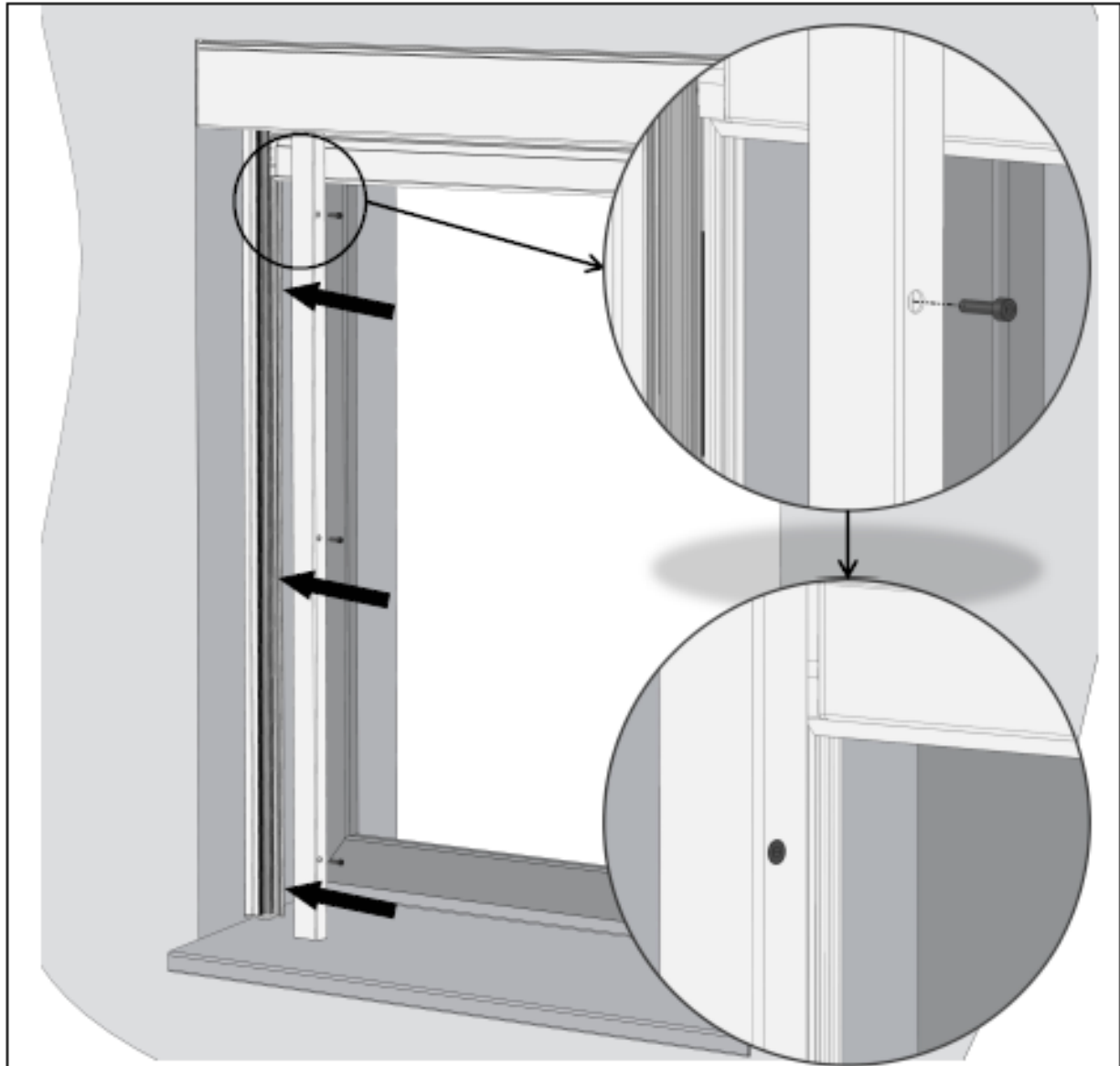
## 2. Fitting the zipper profile



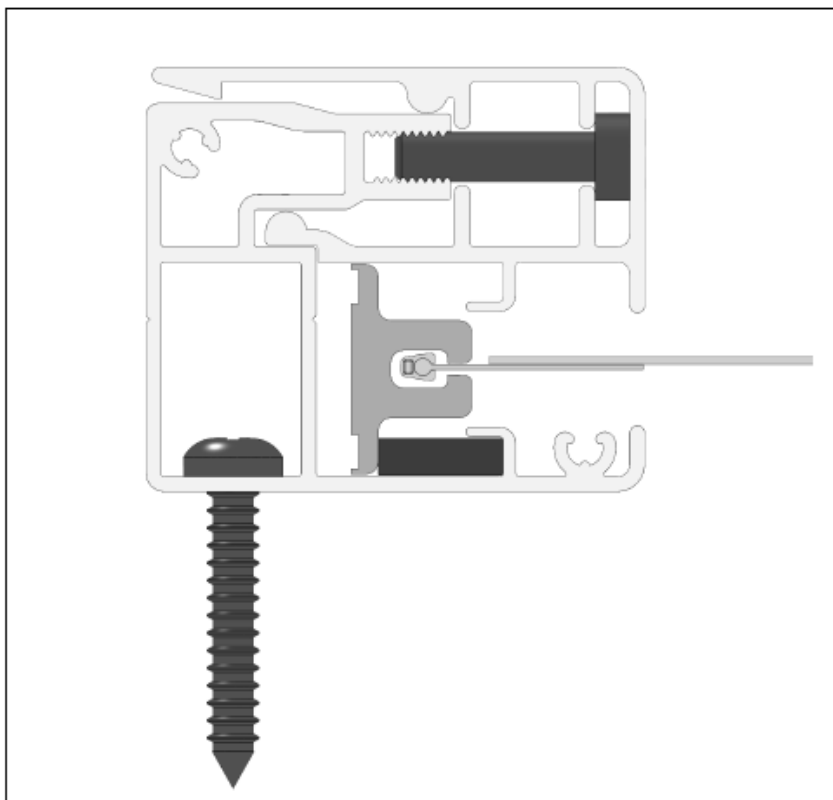
## Cross-section of the rail A840-1 after fitting the zipper profile



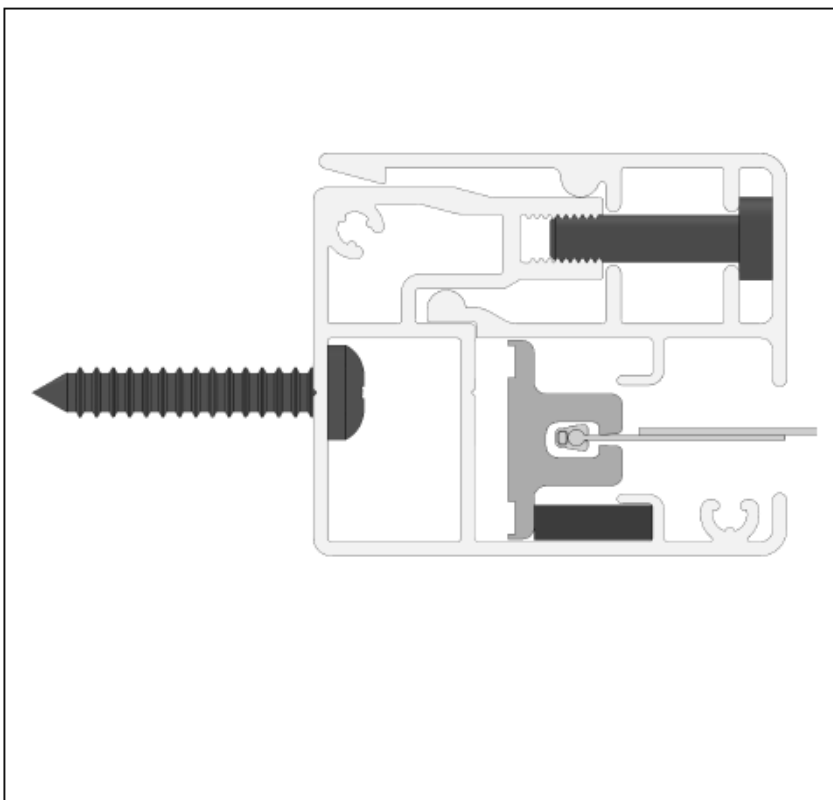
### 3. Fitting the lock A840-1



## 3.a Cross-section of the rail A840-1 after front-mounting

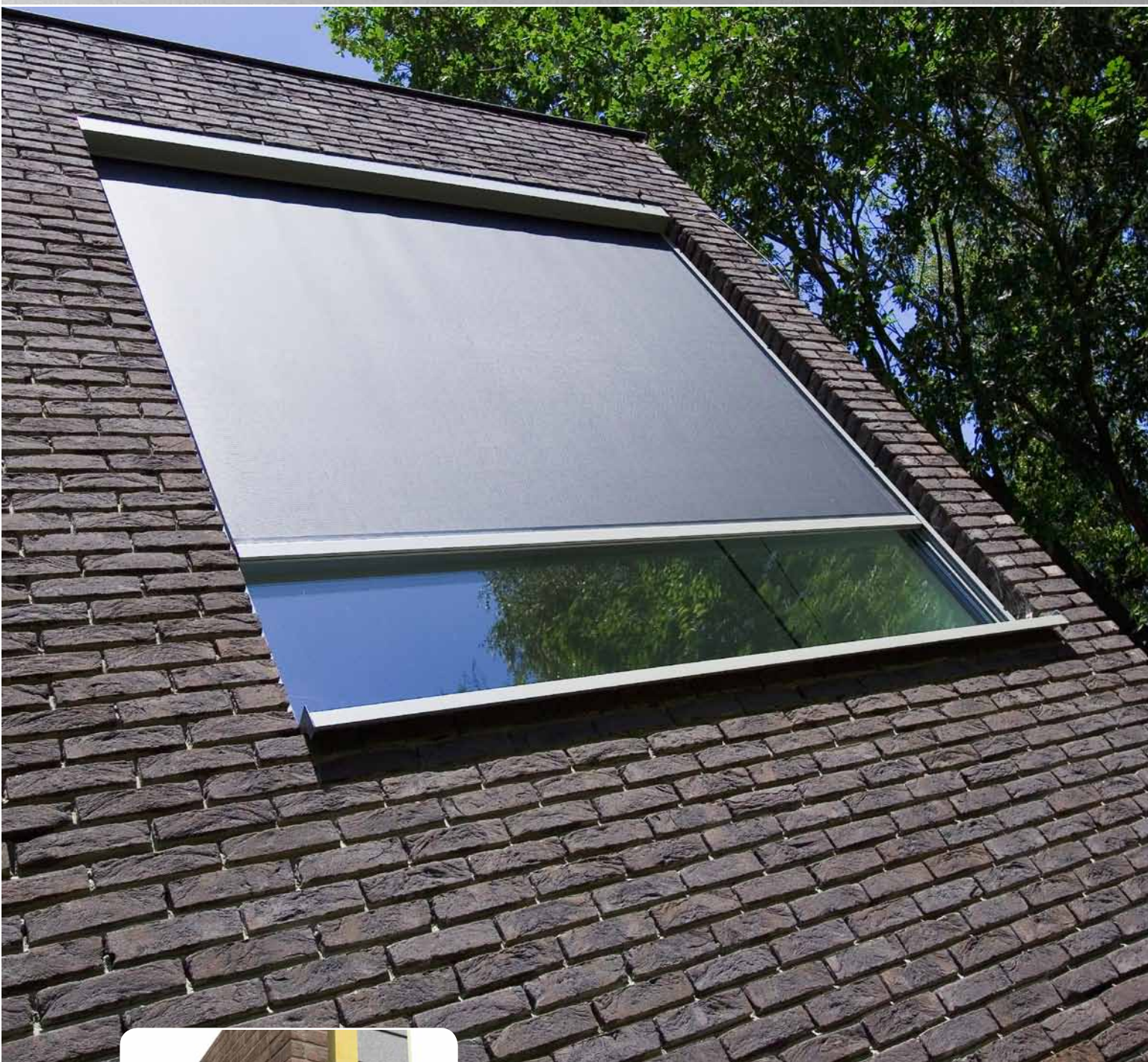


## 3.a Cross-section of the rail A840-1 after side-mounting





## SCREEN HR7



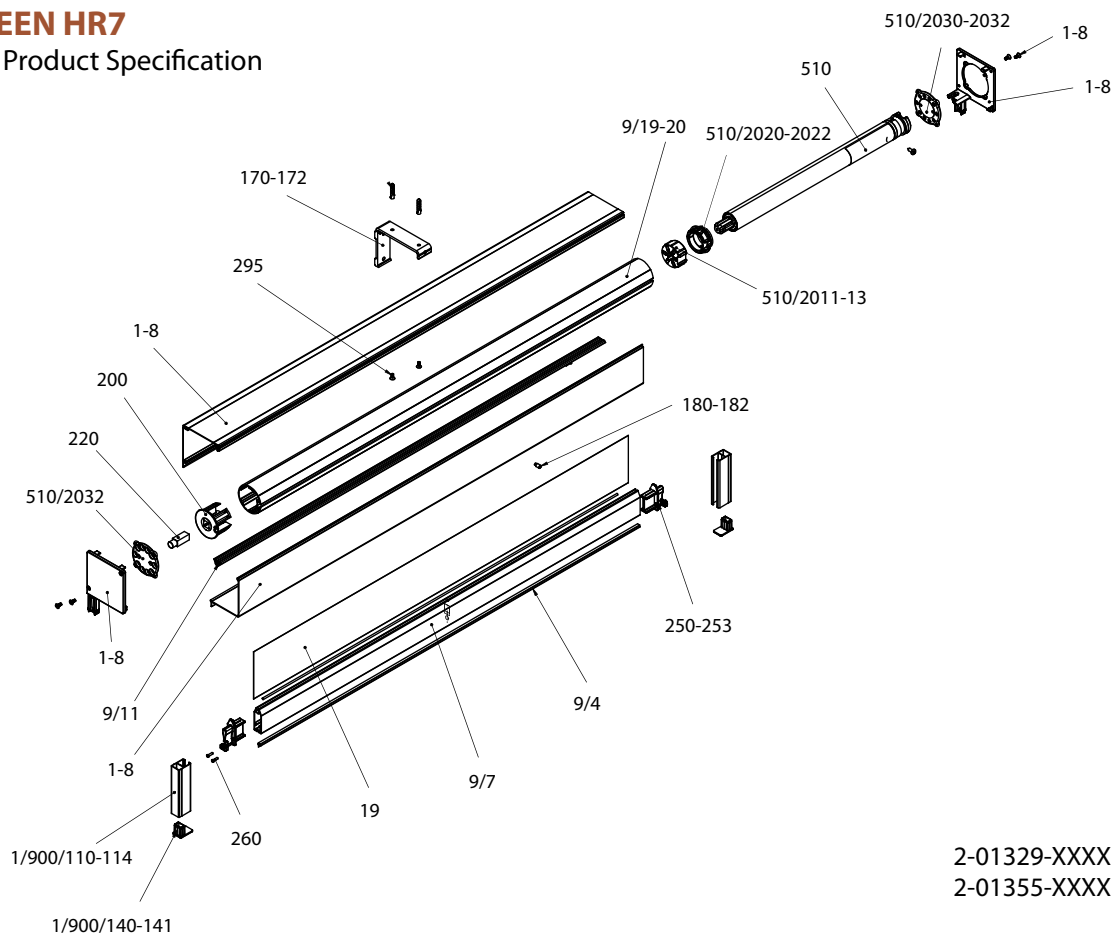
- ▲ Choice of 2 box modern designs: square box for austere architecture or rounded box for more traditional buildings, both types available in 3 sizes,
- ▲ weighted bottom lath to guide and tension the fabric,
- ▲ wind class 2,
- ▲ option of coupled screen up to 3 pcs,
- ▲ choice of 2 fitting options: with guiding wire or guiding channel,
- ▲ easy assembling,
- ▲ area of up to 14 m<sup>2</sup> in 1 part.

**ISOTRA** *Quality*



## SCREEN HR7

### Basic Product Specification



2-01329-XXXX (guide rails)

2-01355-XXXX (wire)

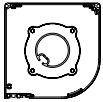
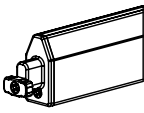
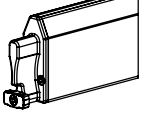
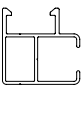
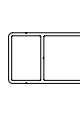
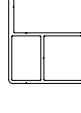
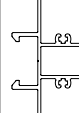
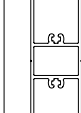
### Control

Used for lifting and lowering of screen blinds. There are available 2 types of control for all box sizes:

**Motor** - Sunea Screen IO, Maestria WT/io, Becker C/E, ALTus RTS (min. width of screen is 685 mm), LS40, Sunea IO 40, Becker 40 C/E can be only used for box with dimensions 70x70.

**Handle** - self-braking worm-worm wheel mechanism, with a transfer ratio of 1:4, with built-in end stop (prevents wrong rolling up of the fabric).

### Specification

|                       | Box                                                                                 |                                                                                     | Bottom rail                                                                         |                                                                                     | Side guidance                                                                       |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                       | square                                                                              | rounded                                                                             | low                                                                                 | high                                                                                | guide rails                                                                         |                                                                                      |                                                                                       |                                                                                       |                                                                                       | cable                                                                                 |
| <b>Abbreviation</b>   | -                                                                                   | -                                                                                   | ZPH073                                                                              | ZPH074                                                                              | ZPH064                                                                              | ZPH063                                                                               | ZPH065                                                                                | ZPH066                                                                                | ZPH067                                                                                |                                                                                       |
| <b>Dimension (mm)</b> | 70x70, 90x90, 110x110                                                               | 70x70, 90x90, 110x110                                                               | 18x36                                                                               | 18x50                                                                               | 30x30                                                                               | 20x30                                                                                | 40x30                                                                                 | 30x60                                                                                 | 20x60                                                                                 | Ø 2,5 mm                                                                              |
| <b>Material</b>       | Al                                                                                  | Al                                                                                  | Al                                                                                  | Al                                                                                  | Al                                                                                  | Al                                                                                   | Al                                                                                    | Al                                                                                    | Al                                                                                    | stainless steel                                                                       |
|                       |  |  |  |  |  |  |  |  |  |  |
|                       |                                                                                     |                                                                                     | type 725                                                                            | type 720                                                                            | type 728                                                                            | type 755                                                                             | type 756                                                                              | type 770                                                                              |                                                                                       |                                                                                       |
| <b>Colour</b>         | Standard:<br>RAL 9006 light silver<br>RAL 9007 dark silver<br>RAL 9010 white        |                                                                                     | RAL 7016 anthracite grey<br>RAL 7016S anthracite grey structure<br>RAL 8014 brown   |                                                                                     | Other RAL colors upon request*                                                      |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

\*except of plastic parts

### Standard Dimensions

#### Standard dimensions for box 70

| Control            | Width (mm) |      | Height (mm) |      | Guaranteed area (m²) |
|--------------------|------------|------|-------------|------|----------------------|
|                    | min.       | max. | min.        | max. |                      |
| <b>handle</b>      | 400        | 2200 | 400         | 2800 | 6                    |
| <b>motor LS40</b>  | 510        | 3000 | 400         | 1800 | 5,4                  |
| <b>motor 40 iO</b> | 565        | 3000 | 400         | 1800 | 5,4                  |

Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 900 mm

**Standard dimensions for box 90**

| Control           | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|-------------------|------------|------|-------------|------|-----------------------------------|
|                   | min.       | max. | min.        | max. | max.                              |
| handle            | 400        | 3000 | 400         | 3500 | 9                                 |
| motor RTS, iO, WT | 685        | 3500 | 400         | 3500 | 9                                 |

Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 1800 mm

**Standard dimensions for box 110**

| Control           | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|-------------------|------------|------|-------------|------|-----------------------------------|
|                   | min.       | max. | min.        | max. | max.                              |
| handle            | 400        | 3500 | 400         | 3000 | 10                                |
| motor RTS, iO, WT | 685        | 3500 | 400         | 4000 | 14                                |

Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 2600 mm

**Note:**

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.

**Common phenomena of technical fabrics**

The fabric may curl around the welds or in the middle of the fabric, it is the so-called tree effect. This phenomenon is common because different forces act on the fabric during use. Another phenomenon may be visible bruises on the fabric caused by the roller. These disappear at higher temperatures when the fabric levels.

**SCREEN HR7 (2-01355-XXXX, 2-01329-XXXX)**

| position | item name                                        | business name | drawing number                    |
|----------|--------------------------------------------------|---------------|-----------------------------------|
| 1-8      | Box for screen 070/090/110/150 square or rounded |               | 2-01356-PU11 - 2-01363-PU11       |
| 9        | Profiles                                         |               | see Profiles                      |
| 19       | Screen fabric (m2)                               |               | see Sampler of Screen fabrics     |
| 170-172  | Mounting bracket - box 110 mm - SC700/800        | ZPH080        | 6-014342-0000                     |
| 510      | Screen motors (SOMFY, BECKER)                    |               | see Screen motors (SOMFY, BECKER) |
| 900-910  | Guiding - rail/cable - left - right              |               | see Guiding - rail/cable          |

**Profiles (3-03054-PU11)**

| position | item name                     | business name | drawing number |
|----------|-------------------------------|---------------|----------------|
| 4        | Sealing of bottom rail        | ZPH116        | 6-013974-0000  |
| 6        | Bottom rail low HR7           | ZPH073        | 6-014446-0000  |
| 7        | bottom rail hight HR7/HR8-ZIP | ZPH074        | 6-014021-0000  |
| 8        | Plastic bar 4,0 mm PVC        | ZP0097/0004   | 6-016911-0004  |
| 8        | Plastic bar 6,0 mm PVC        | ZPH169        | 6-015096-0000  |
| 9        | Plastic bar 3,0 mm PVC        | ZP0097/0003   | 6-016911-0003  |
| 11       | Profile for fabric run-on     | ZPH115-1      | 6-013986-0000  |
| 19       | Roller tube al. Dia 40mm - 6m | ZPH122        | 6-014229-0000  |
| 20       | Roller tube AL. dia 55mm - 6m | ZPH123        | 6-014027-0000  |
| 21       | Roller tube AL. dia 67mm - 6m | ZPH124        | 6-013982-0000  |

**Guiding - rail/cable - left - right (2-01634-PU11L/P)**

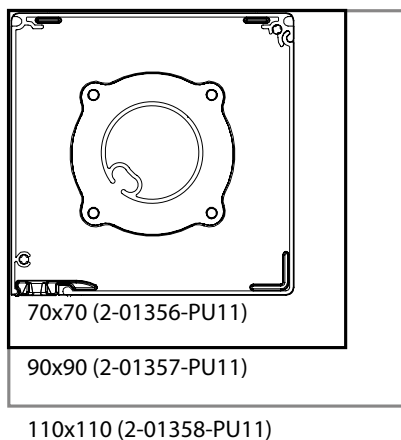
| position | item name                                      | business name | drawing number |
|----------|------------------------------------------------|---------------|----------------|
| 110      | Guide rail 720                                 | ZPH063        | 6-014023-0000  |
| 111      | Guide rail 725                                 | ZPH064        | 6-014415-0000  |
| 112      | Guide rail 728                                 | ZPH065        | 6-014403-0000  |
| 113      | Guide rail 755                                 | ZPH066        | 6-014416-0000  |
| 114      | Guide rail 756                                 | ZPH067        | 6-014404-0000  |
| 140      | Guide rail end - black                         | ZPH094        | 6-014022-9004  |
| 141      | Double guide rail end                          | ZPH093        | 6-014469-0000  |
| 200      | Guide rail holder 50mm                         | ZPH082        | 6-014549-0000  |
| 201      | Guide rail holder 60mm                         | ZPH083        | 6-014550-0000  |
| 202      | Guide rail holder 100 mm                       | ZPH084        | 6-014552-0000  |
| 203      | Guide rail holder 130mm                        | ZPH085        | 6-014542-0000  |
| 210      | Screw M4x5 stainless                           | 51340.040.005 | 6-014559-0000  |
| 220      | Washer M4                                      | 51930.040.001 | 6-014560-0000  |
| 230      | Nut M4                                         | 51080.040.001 | 6-014561-0000  |
| 700      | Cable 2,5mm - stainless A2                     | ZPH100        | 6-014036-0000  |
| 710      | Angle fixation box for cable guide 770         | ZPH118        | 6-014029-0000  |
| 720      | Angle fixation box for cable guide 770 - wall  | ZPH119        | 6-014412-0000  |
| 730      | Cable holder - type 770                        | ZPH086        | 6-014033-0000  |
| 740      | Screw M4x6                                     | 07930.040.006 | 6-006226-0000  |
| 750      | Spring for guide 770                           | ZPH098        | 6-014034-0000  |
| 760      | Angle fixation box for cable guide 770 - wall  | ZPH121        | 6-014030-0000  |
| 770      | Tensioning screw for cable guide               | ZPH101        | 6-014035-0000  |
| 780      | Nut M6                                         | 51090.060.001 | 6-014158-0000  |
| 790      | Angle fixation box for cable guide 770 - floor | ZPH120        | 6-014031-0000  |
| 800      | Screw M4x6                                     | 51300.040.006 | 6-014445-0000  |

## SCREEN HR7

### Technical Specification

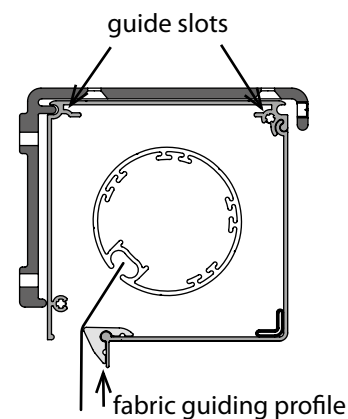
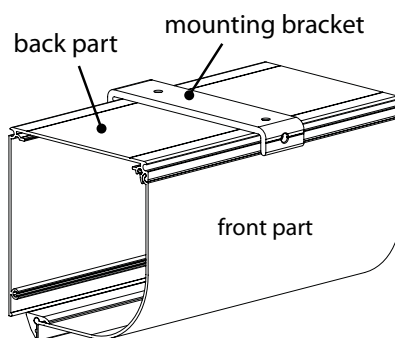
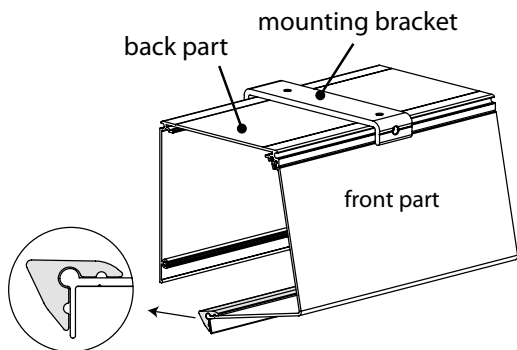
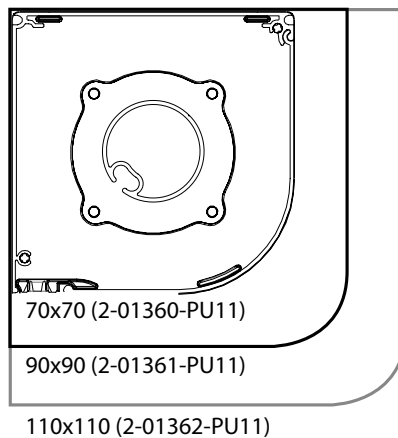
#### Head rail - square

(2-01356, 2-01357, 2-01358)



#### Head rail - rounded

(2-01360, 2-01361, 2-01362, 2-01363)

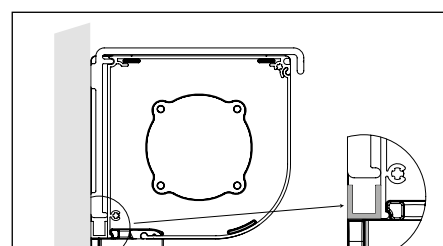


#### Finishing back side of the screenbox

##### U-profile width - horizontal

The gap between box and wall can be filled up horizontal with U-profile of 10 x 10 x 10 mm, the length is defined by the box width.

To use with: - mounting bracket

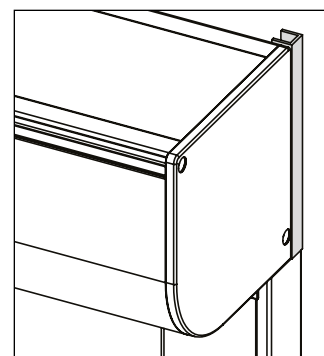


U-profile width - horizontal

##### U-profile height vertical

The gap between box and wall can be filled up with a U-profile (10x10x10 mm), the length is defined by the box height.

To use with: - mounting brackets



U-profile height - vertical

**Mounting bracket - box 70 mm, 90 mm, 110 mm**  
(6-014340, 6-014341, 6-014342)

**Material:** extruded aluminium with a powder coating finish

For installation of the box independent from the guides: standard for cable guide

**Width:** 30 mm

Brings the rear face of the box 10 mm forward for cable guide.

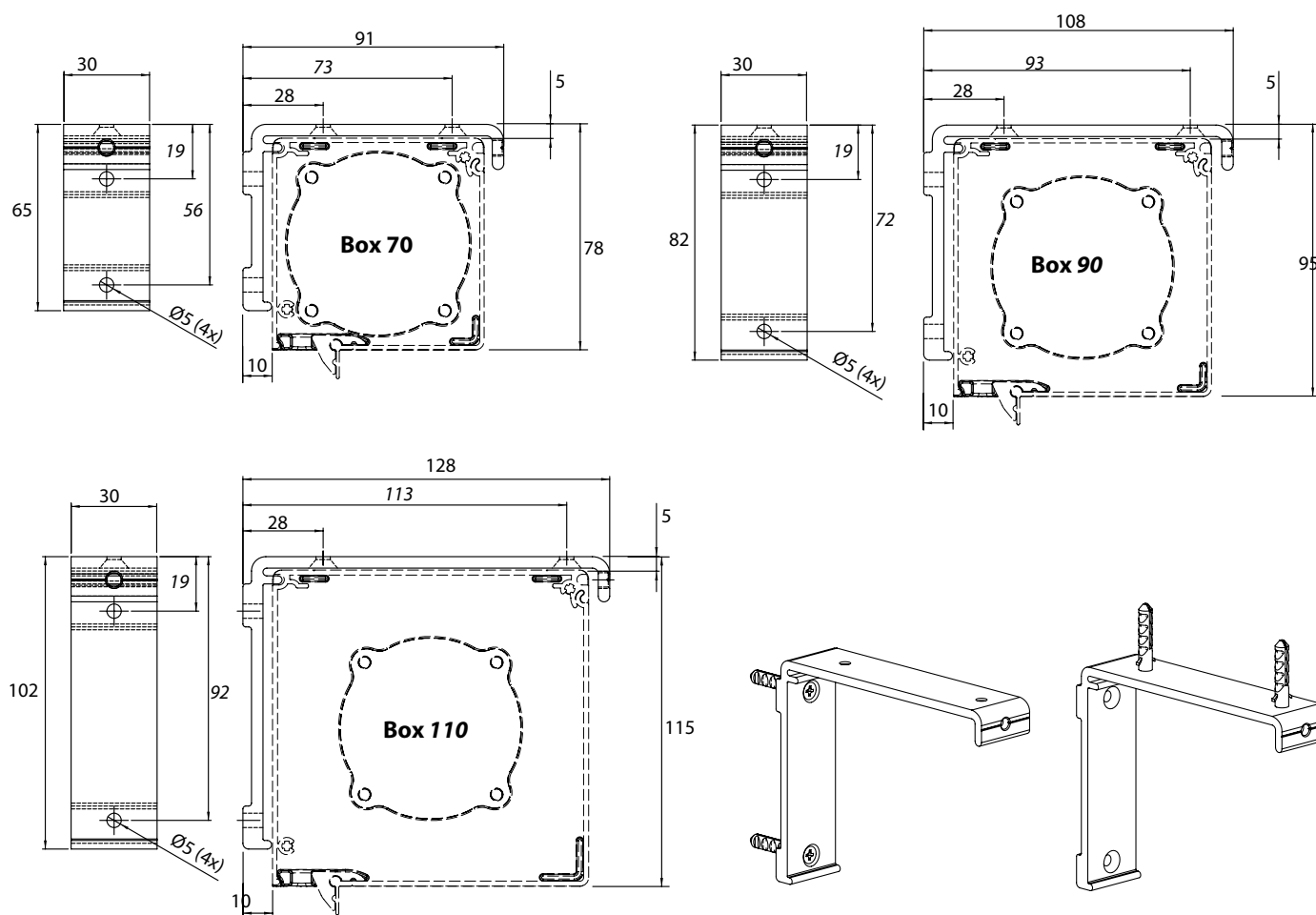
It is necessary to specify the ZS or ZSTR attachment for cable guide or without guidance. It is necessary to specify the attachment = 0 for guide rails (held on guide rails).

Standard number of mounting brackets:

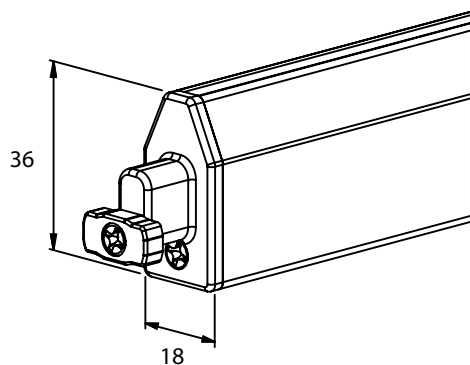
| Screen width (mm) | Guidance |             |
|-------------------|----------|-------------|
|                   | cable    | guide rails |
| 0 – 1500          | 2 pc     | 0 (2*) pc   |
| 1501 – 3000       | 3 pc     | 3 pc        |
| 3001 – 4500       | 4 pc     | 4 pc        |
| 4501 – 5000       | 5 pc     | 5 pc        |

\* If specified „the mounting bracket“ in the order form there will be supplied 2 pieces of mounting bracket (up to the width of the roller shutter 1500 mm is the self-supporting roller blind).

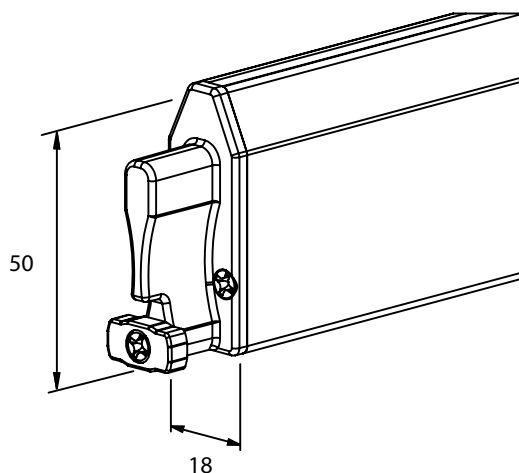
If the mounting bracket is used, we recommend using guide rails of types A725, A728 and A755.



**Bottom rail low**  
(6-014446-0000)



**Bottom rail high**  
(6-014021-0000)



Material: extruded aluminium profile with:

- a powder coated finish
- a room for a weighting strip
- a fabric groove

Fabric is attached to bottom rail, using a plastic tube Ø 3 mm

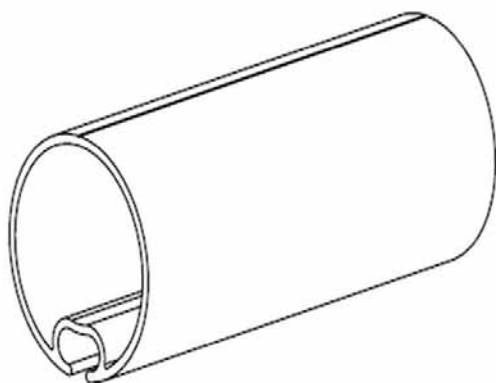
Available in 2 sizes: low bottom rail as standard, high bottom rail (optional).

Optional: rubber strip on the bottom rail

**End part of bottom rail:**

- Black plastic with a flock coating
- Shape depends on bottom rail
- Removable

**Roller tube diameter 40mm - 6m, 55mm - 6m, 67mm-6m**  
(6-014229-0000, 6-014027-0000, 6-013982-0000)



Material: Extruded aluminium (Ø40, Ø55 or Ø67 mm).

With a fabric groove for attaching the fabric using a plastic tube of Ø4 mm for tube Ø40 mm, Ø55 mm and Ø67 mm.

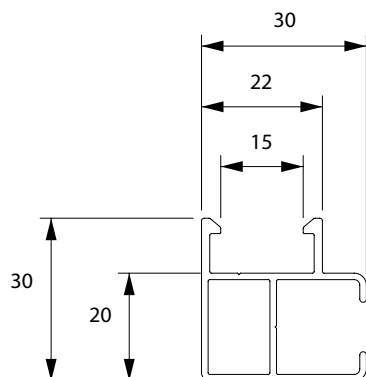
Various types of roller tubes are possible, depending on the type of operation and the box type: tube Ø40 mm (not for electrical operation), tube Ø55 mm and tube Ø67 mm.

## Guide rails

**Material:** extruded aluminium profiles with a powder coated finish

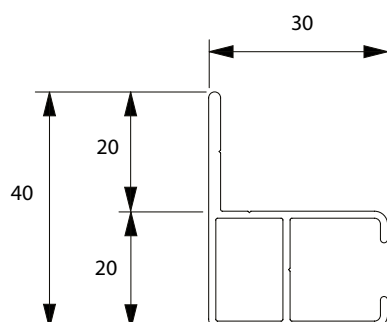
### Guide rail T725 (6-014415-0000)

- standard guide for clips attachment or small distance relative to the rear face (10 mm).



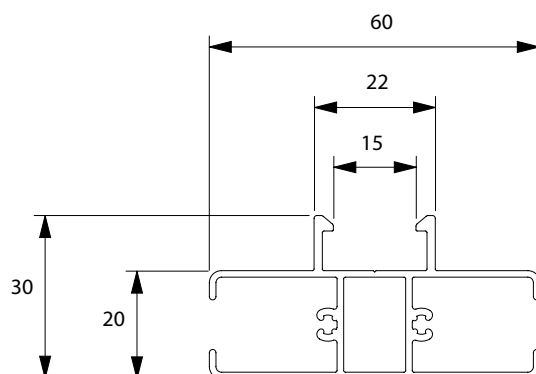
### Guide rail T728 (6-014403-0000)

- guide with short assembly flange



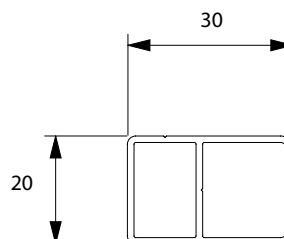
### Guide rail T755 (6-014416)

- intermediate guide rail



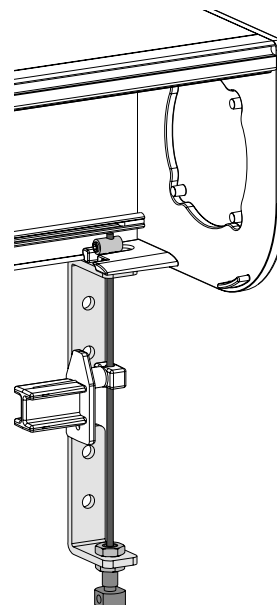
### Guide rail T720 (6-014023-0000)

- flate guide without clips attachment



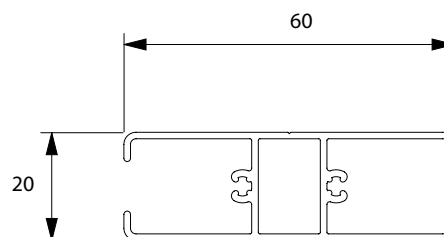
### Guide calbe type T770 (6-014036-0000)

- stainless steel cable guide, with stainless steel brackets or in option floorfitting



### Guide rail T756 (6-014404)

- intermediate guide rail



### Guide rails - frontway/sideway drilling (200 mm on both sides from the edges)

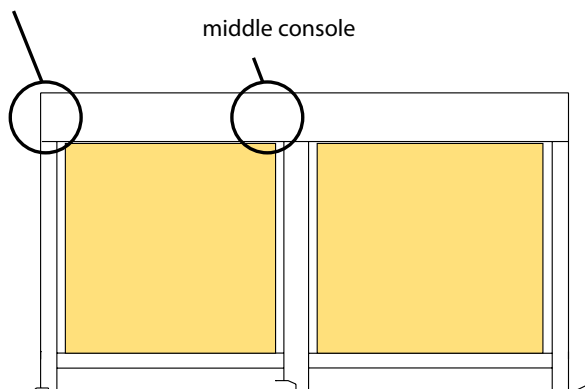
|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| up to a height of 1500 mm       | 2 openings (on the edges)                                |
| more than 1500 mm up to 3000 mm | 3 openings (2 openings on the edges + 1 centre opening)  |
| from 3000 mm up to 4500 mm      | 4 openings (2 openings on the edges + 2 centre openings) |
| from 4500 mm                    | 5 openings (2 openings on the edges + 3 centre openings) |

## Consoles

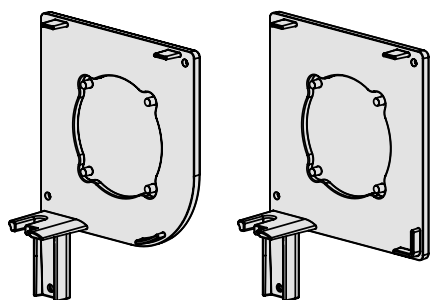
**Basic consoles:** - aluminium consoles with die-casted guide pin (nto with cable guide) = pin mounting, universal bearing plates in black synthetic material

**Middle consoles:** - aluminium consoles with diecasted guide pin with support for  
- can hold the bearing for the coupled screen or universal bearing plate.

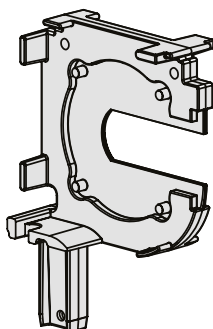
basic console



Pin guide assembly - basic console



Pin guide assembly - middle console



|      |                                                               |
|------|---------------------------------------------------------------|
| x    | Possible                                                      |
| x    | Only possible with square boxes                               |
|      | Usage of small handle with eye                                |
|      | Usage of big handle with eye                                  |
| E/H* | To use under overhang or inside because of water penetration. |
| o    | not possible                                                  |

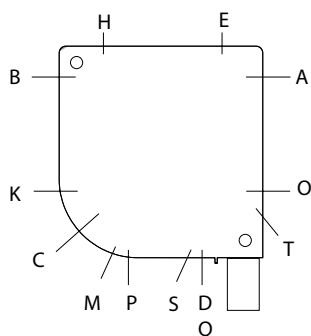
## Operating exit

| Type of installation | Control         | O  |    |     | A  |    |     | E/H* |    |     | T  |    |     | B  |    |     |
|----------------------|-----------------|----|----|-----|----|----|-----|------|----|-----|----|----|-----|----|----|-----|
|                      |                 | 70 | 90 | 110 | 70 | 90 | 110 | 70   | 90 | 110 | 70 | 90 | 110 | 70 | 90 | 110 |
| A-AE                 | Motor           | x  | x  | x   | x  | x  | x   | o    | o  | x   |    |    |     |    |    |     |
|                      | Handle 45°      |    |    |     |    |    |     |      |    |     | x  | x  | x   |    |    |     |
|                      | Handle 90°      | o  | x  | x   | x  | x  | x   |      |    |     |    |    |     |    |    |     |
|                      | Handle with eye |    |    |     |    |    |     |      |    |     |    |    |     |    |    |     |
| B-BE                 | Motor           |    |    |     |    |    |     | o    | o  | x   |    |    |     | x  | x  | x   |
|                      | Handle 45°      |    |    |     |    |    |     |      |    |     |    |    |     |    |    |     |
|                      | Handle 90°      |    |    |     |    |    |     |      |    |     |    |    |     | x  | x  | x   |
|                      | Handle with eye |    |    |     |    |    |     |      |    |     |    |    |     |    |    |     |

| Type of installation | Control         | K  |    |     | P  |    |     | Q/D* |    |     | C  |    |     | S  |    |     |
|----------------------|-----------------|----|----|-----|----|----|-----|------|----|-----|----|----|-----|----|----|-----|
|                      |                 | 70 | 90 | 110 | 70 | 90 | 110 | 70   | 90 | 110 | 70 | 90 | 110 | 70 | 90 | 110 |
| A-AE                 | Motor           |    |    |     |    |    |     |      |    |     |    |    | x   |    |    |     |
|                      | Handle 45°      |    |    |     |    |    |     |      |    |     |    |    |     |    |    |     |
|                      | Handle 90°      |    |    |     |    |    |     |      |    |     |    |    |     |    |    |     |
|                      | Handle with eye |    |    |     |    |    |     | o    | o  |     |    |    |     | o  |    |     |
| B-BE                 | Motor           | x  | x  | x   |    |    |     | o    | o  | o   |    |    |     |    |    |     |
|                      | Handle 45°      |    |    |     |    |    |     |      |    |     | x  | x  | x   |    |    |     |
|                      | Handle 90°      | x  | x  | x   |    |    |     |      |    |     |    |    |     |    |    |     |
|                      | Handle with eye |    |    |     |    |    |     |      |    |     |    |    |     |    |    |     |



## Operating exits



Various exits are possible depending the operation. The exact location of the operation exit can be seen on the drawings. Consult these drawings before the installation.

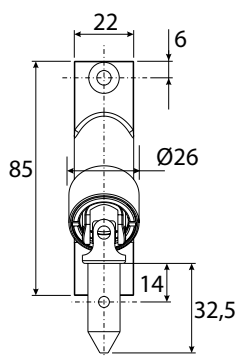
## Control - handle

### Inside operation:

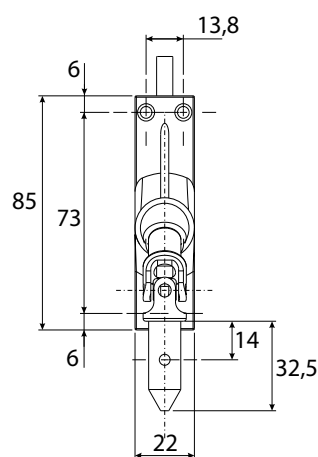
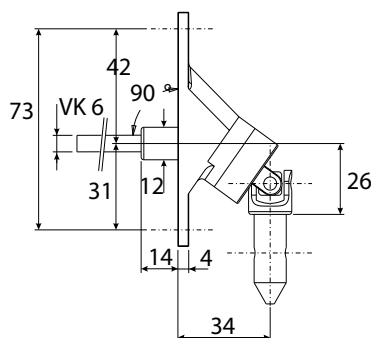
- Standard:
- grey plasticized foldable handle,
  - 90° cardan joint (handle material: 6 mm square, length 320 mm)
  - magnetic bracket for securing the handle to the wall
  - the handle length depends on the screen height:  $L = H - 150$  mm (with a 90° joint),  $L = H - 350$  mm (with a 45° joint),

- Options:
- 45° cardan joint
  - detachable handle with tulip coupling
  - without detachable handle, with tulip coupling.

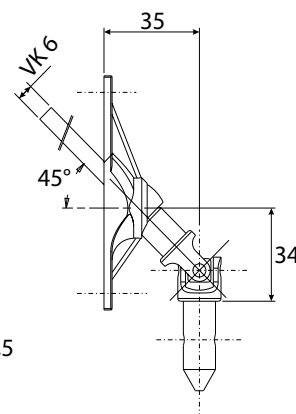
Note: the plate of the hinge set cannot be fixed directly onto the box, a separate box space is therefore required.



cardan joint 90°



cardan joint 45°

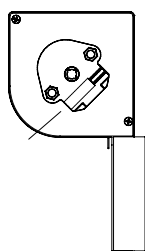


## Outside operation

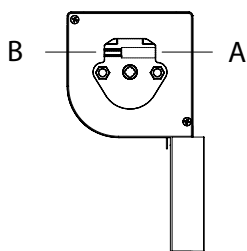
- Standard:
- Handle operation with eye, removable handle with laying hook; length 1500 mm
- Option:
- other handle lengths are possible at extra cost

Attention: ensure sufficient space on the side ( $\pm 10$  mm) due to hook rotation in the eye.

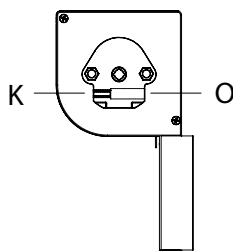
## Operating exits for handle



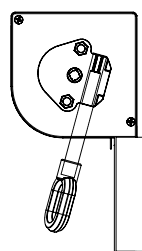
handle 45°  
exit C



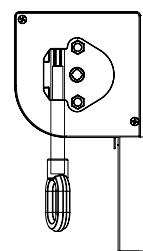
handle 90°  
exit A - B



handle 90°  
exit O - K

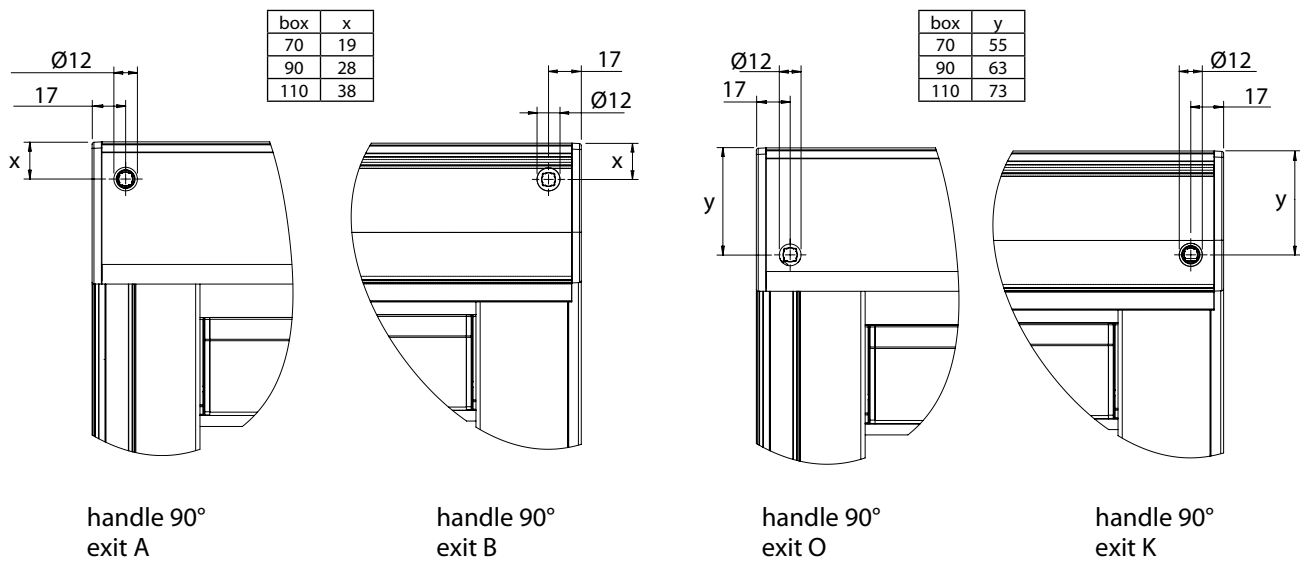


handle + eye  
exit S

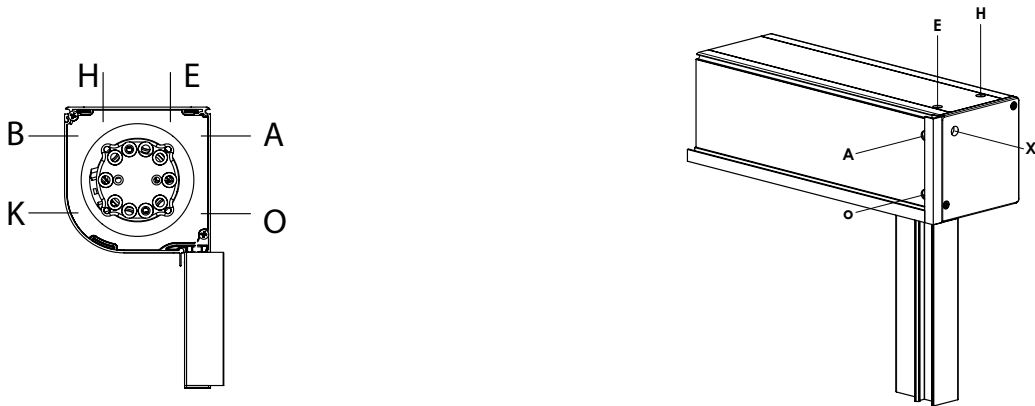


handle + eye  
exit P

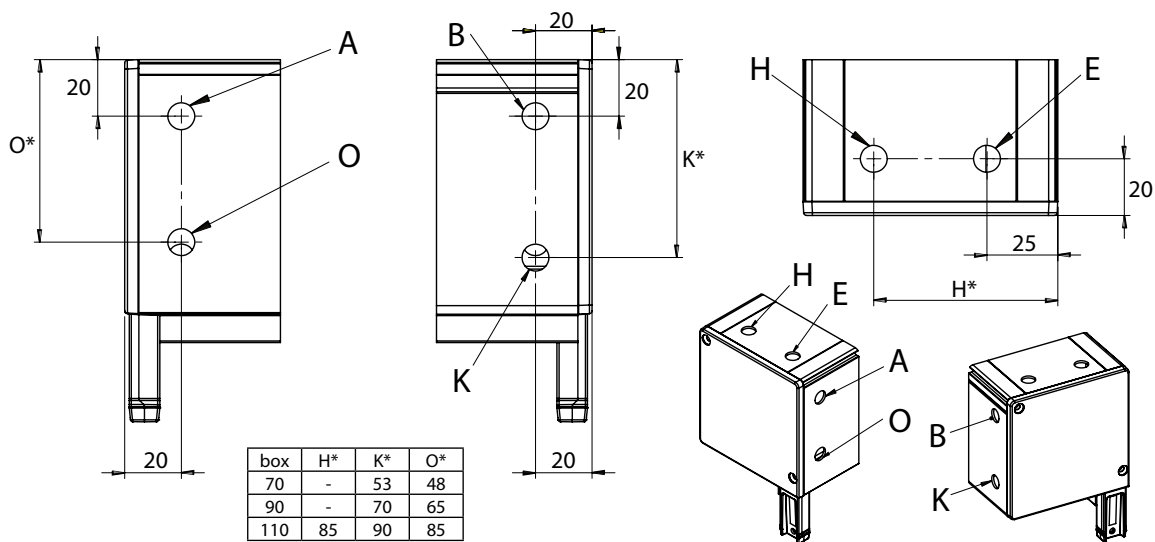
Operating exits for handle through wall



Control – motor  
Choice of cable location



left, terminal X (from side part) for box 110 and 150 only  
right, terminal X (from side part) for box 110 and 150 only



## Coupled screens

It is possible to use 1 box for 2 or 3 screens.

DVC: screens directly next to each other

DVS: Screen with a small gap of:

- Min 25 mm
- Max 500 mm

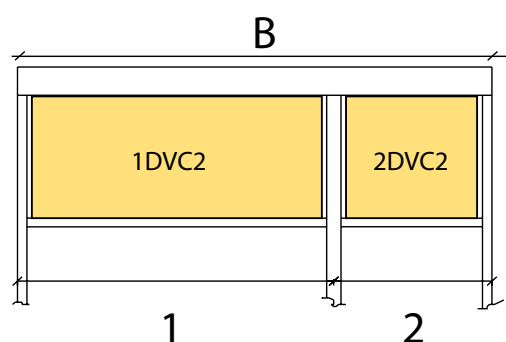
Maximum width of box is 6 m.

Possible with 1, 2 or 3 operation:

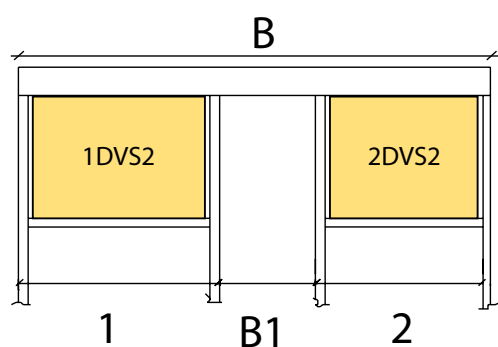
- Minimal width for each part is depending the operation.
- Maximum overall width per operation.

Handle and electrical operation can be coupled up to 6 m.

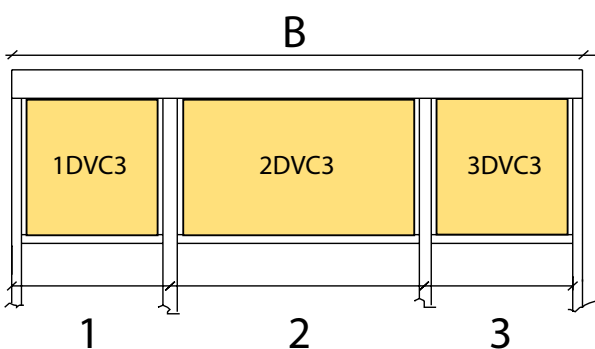
It is recommended to place the operating unit in the largest screen when possible.



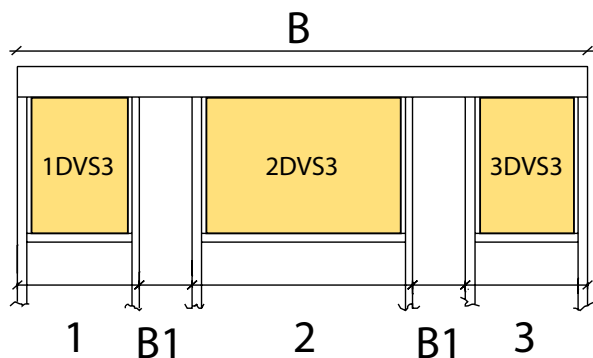
1DVC2 - 1st screen of 2 screens in common box  
2DVC2 - 2nd screen of 2 screens in common box



1DVS2 - 1st screen of 2 screens in common box  
2DVS2 - 2nd screen of 2 screens in common box



1DVC3 - 1st screen of 3 screens in common box  
2DVC3 - 2nd screen of 3 screens in common box  
3DVC3 - 3rd screen of 3 screens in common box



1DVS3 - 1st screen of 3 screens in common box  
2DVS3 - 2nd screen of 3 screens in common box  
3DVS3 - 3rd screen of 3 screens in common box

B = box width

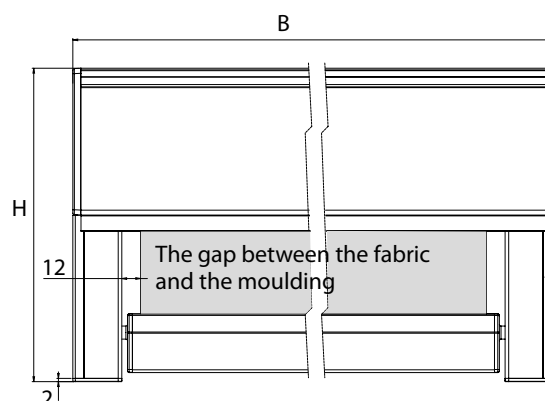
B1 = width between screens

## SCREEN HR7

### Measurement

Finished width B = size between rear ends of the consoles.  
Finished height H = height including the box, including the guide end caps (thickness = 2 mm) excluding mounting brackets.

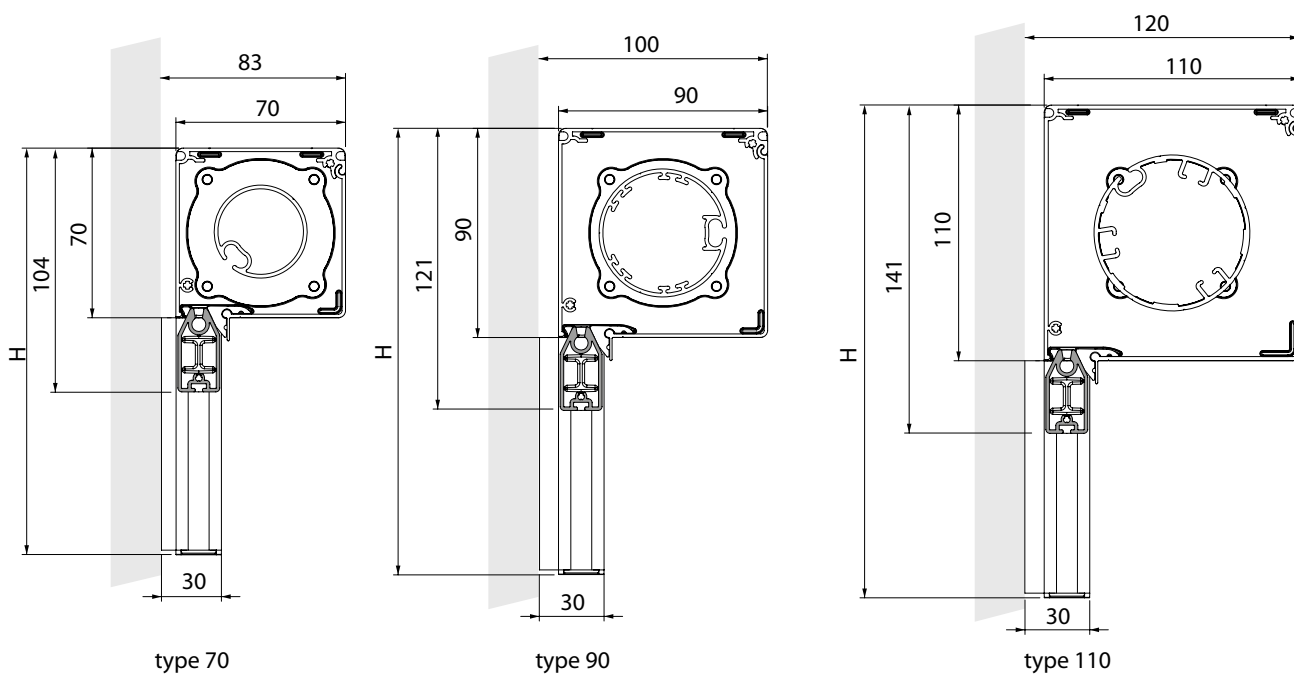
Note: The finished height H with steel calbe guides is the height from the top edge of the box to the lower edge of bottom lath.



## SCREEN HR7

### Assembly

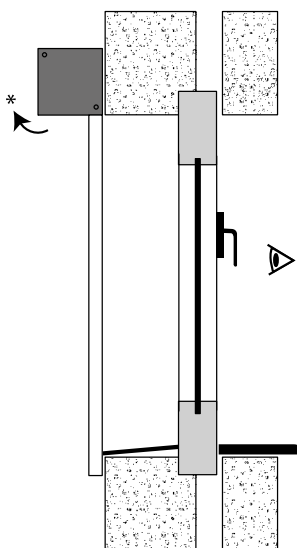
#### Pin guide assembly with guide rail and low bottom rail



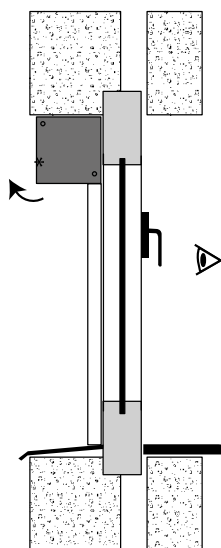
H - see Standard dimensions, page 56-57

#### Assembly types

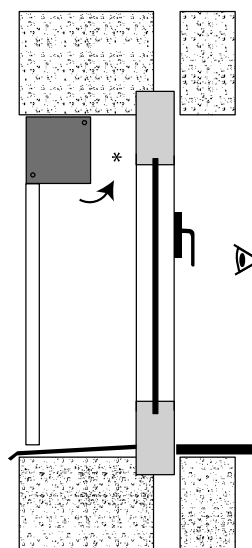
##### Type A-AE (on the wall)



##### Type A-AE (into reveal)

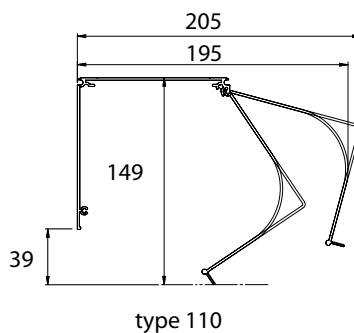
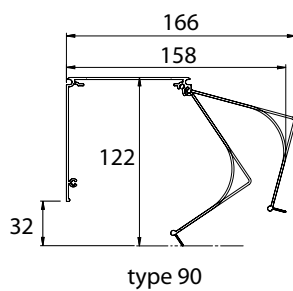
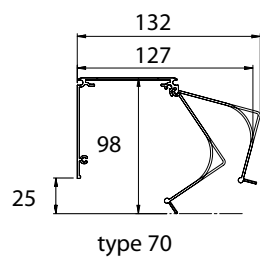


##### Type B-BE (into reveal)



- A - coiling outwards „A“ (standard)
- AE - coiling outwards „AE“ (exterior is lighter)
- B - coiling inwards „B“
- BE - coiling inwards „BE“ (exterior is lighter)

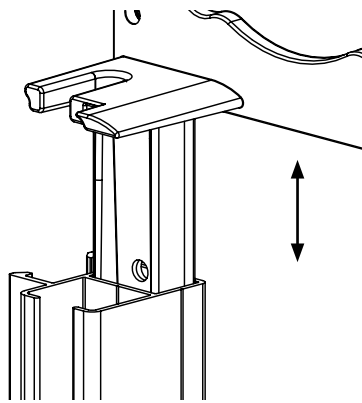
\*space to open the box



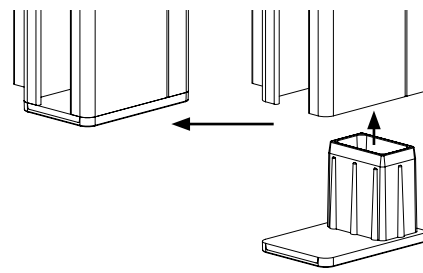
## Ping guide assembly

The screenbox is assembled onto the guides. The guides mover over the pin of the consoles.

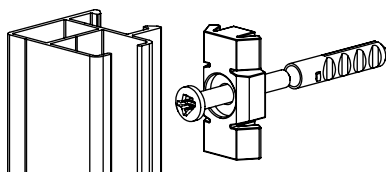
Pin guide assembly



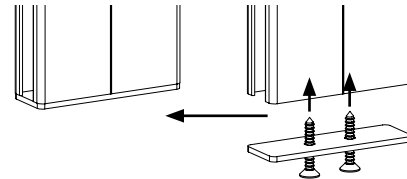
End stop pin guide assembly



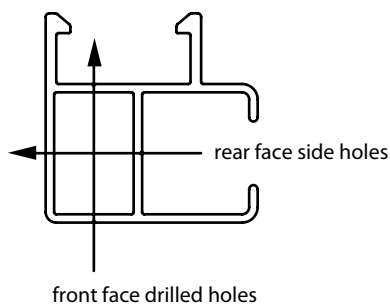
Clips for guide 725 or 755



End stop pin guide assembly intermediate guide



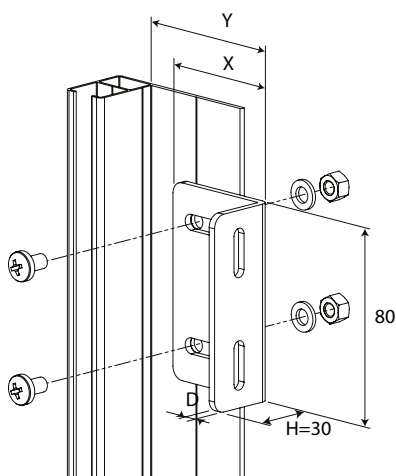
Fitted with an end stop in black plastic or end plate in aluminium at the bottom end to stop the bottom lath; thickness 2 mm.



Guide rails for side and/or rear face drilled holes:

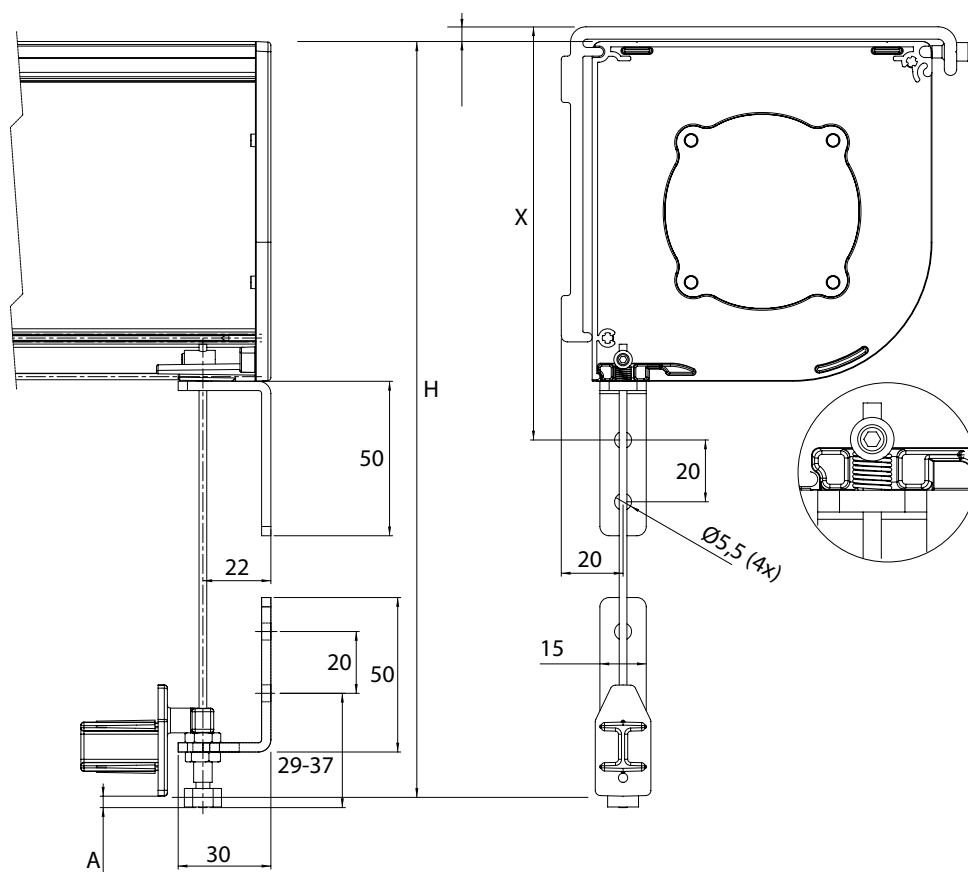
| Drilling   | 725 | 720 | 728 | 755 | 756 | 740 |
|------------|-----|-----|-----|-----|-----|-----|
| front face | x   | x   | -   | x   | x   | -   |
| side face  | x   | x   | x   | -   | -   | -   |

## Distance support for guide rail 728

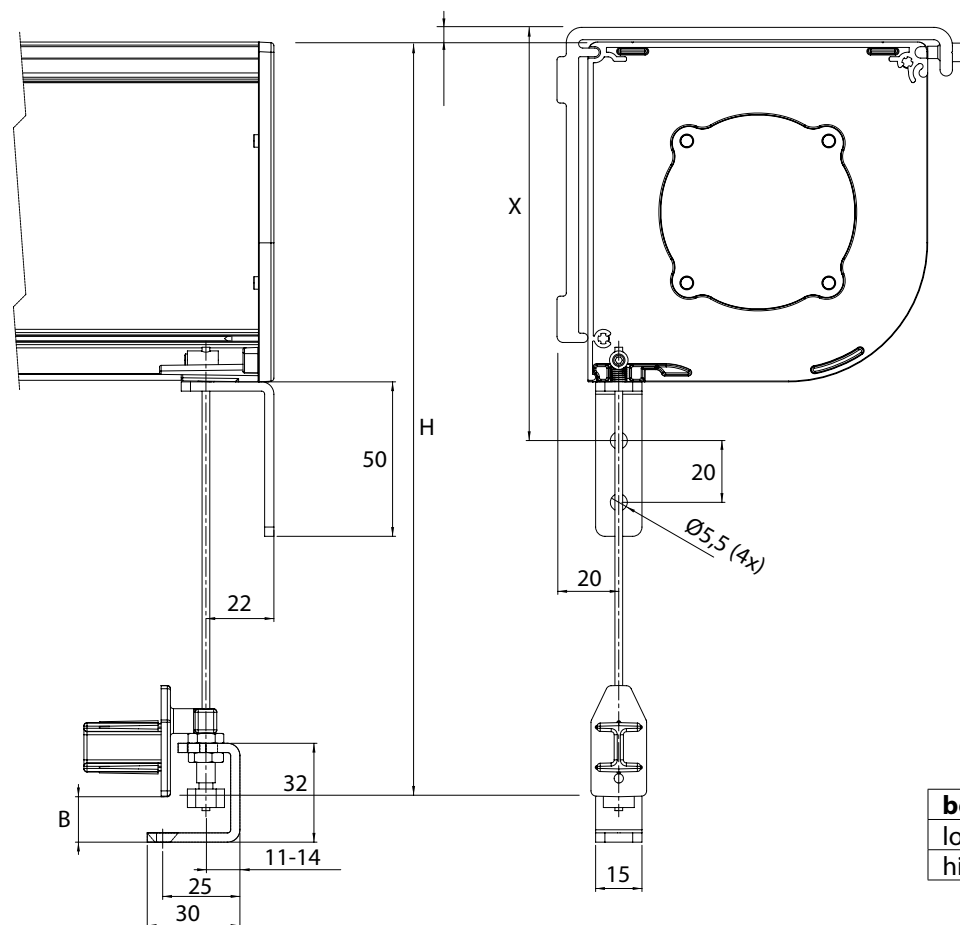


| X × H × D    | X   | Y       | drawing number |
|--------------|-----|---------|----------------|
| 50 × 30 × 3  | 50  | 50-65   | 6-014549-0000  |
| 60 × 30 × 3  | 60  | 60-75   | 6-014550-0000  |
| 100 × 30 × 3 | 100 | 100-115 | 6-014552-0000  |
| 130 × 30 × 3 | 130 | 130-145 | 6-014542-0000  |

### Guide cable 770 - pin guide assembly into reveal



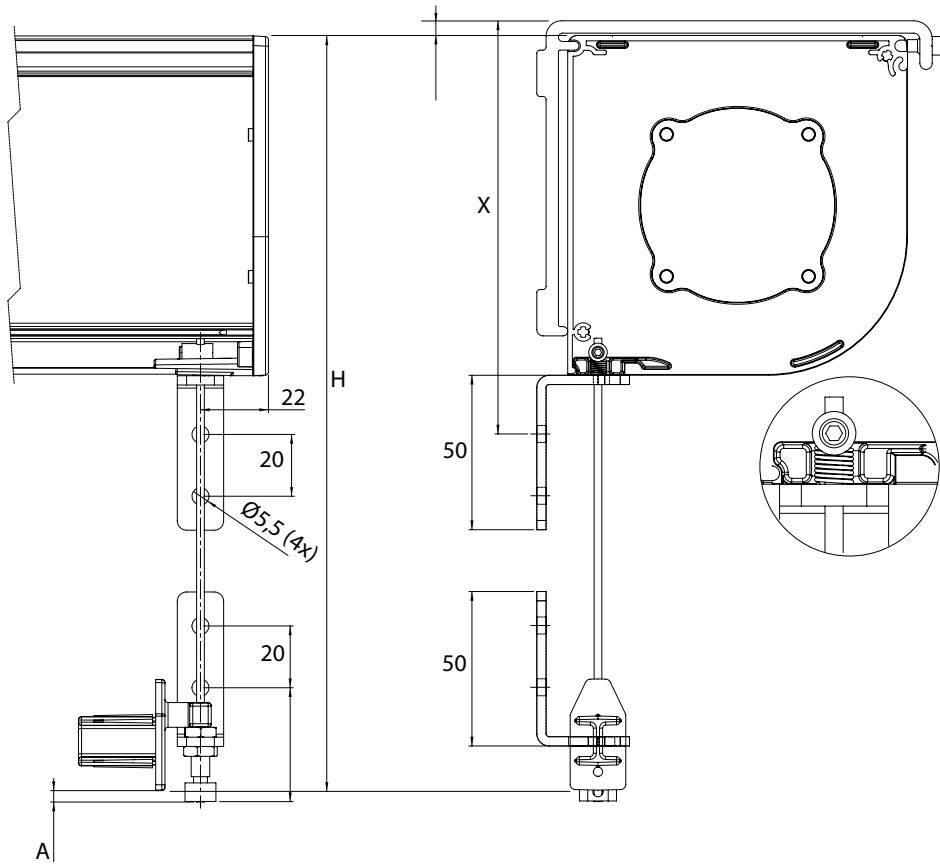
| box size | X   |
|----------|-----|
| 70       | 98  |
| 90       | 115 |
| 110      | 135 |



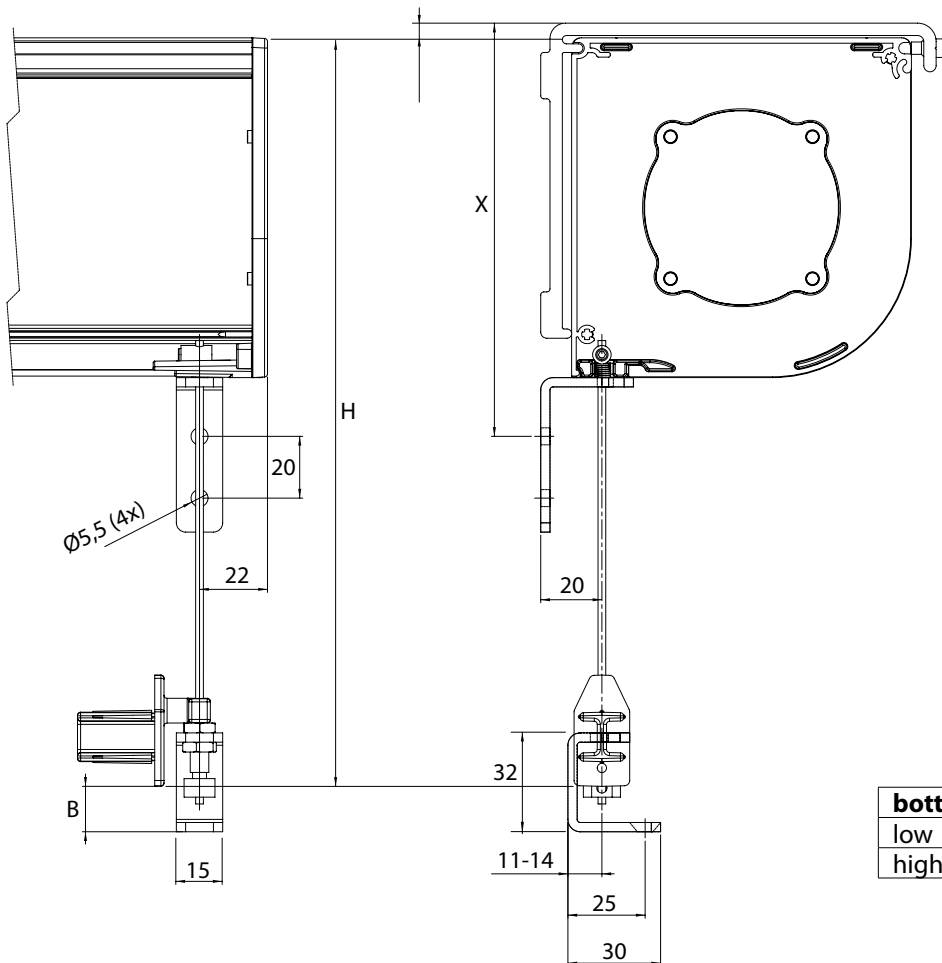
| <b>bottom rail</b> | <b>A</b> | <b>B</b> |
|--------------------|----------|----------|
| low                | 4        | 15...23  |
| high               | -10      | 1...9    |

H - see Standard dimensions, page 56-57

## Guide cable 770 - pin guide assembly on the wall



| box size | X   |
|----------|-----|
| 70       | 98  |
| 90       | 115 |
| 110      | 135 |



| bottom rail | A   | B  |
|-------------|-----|----|
| low         | 4   | 15 |
| high        | -10 | 1  |



## SCREEN HR8-ZIP

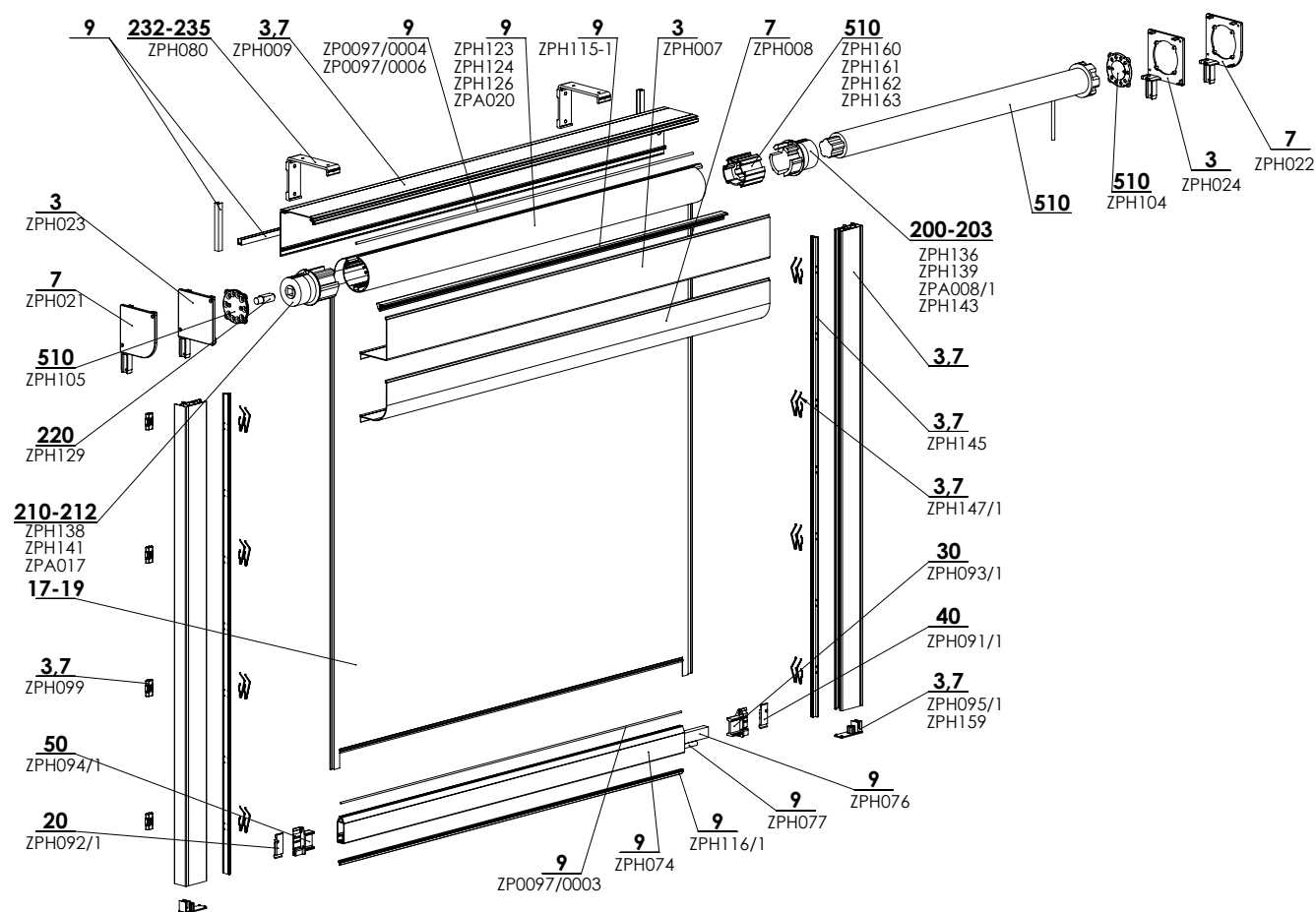


- ▲ Choice of 2 box modern designs: square box for austere architecture or rounded box for more traditional buildings, both types available in 4 sizes,
- ▲ the weighted bottom rail for guiding and tightening the fabric,
- ▲ high wind resistance (wind class 3),
- ▲ possibility of coupling up to 3 pcs of screen roller blinds,
- ▲ easy assembling,
- ▲ guaranteed area 18 m<sup>2</sup>.

**ISOTRA** *Quality*

## SCREEN HR8-ZIP

### Basic Product Specification



2-01330-0090

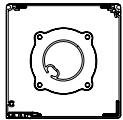
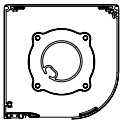
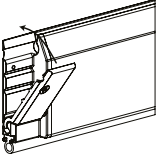
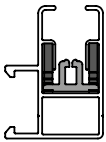
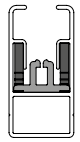
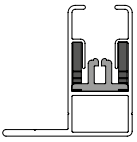
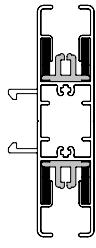
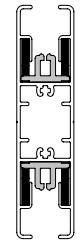
### Control

Used for lifting and lowering of screen blinds. There are available 2 types of control for all box sizes:

**Motor** - Maestria WT/io, Altus RTS, Becker C/E, Geiger AIR, Sunea Screen IO, ALTus RTS (min. width of screen is 795 mm), LS40, Sunea IO 40 can be only used for box with dimensions 70x70 Isotra Basic.

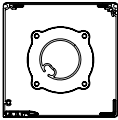
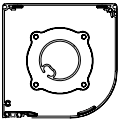
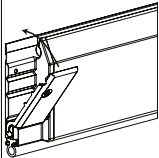
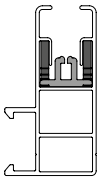
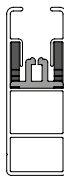
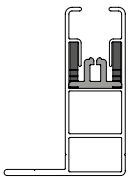
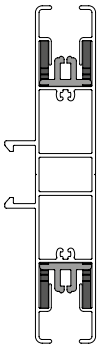
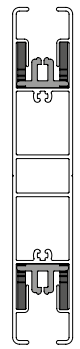
**Handle** - self-braking worm-worm wheel mechanism, with a transfer ratio of 1:4, with built-in end stop (prevents wrong rolling up of the fabric).

### Specification (for motor)

|                       | Box                                                                                                                                                 |                                                                                     | Bottom rail                                                                                                                                                                         | Side guidance                                                                       |                                                                                      |                                                                                                              |                                                                                       |                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                       | square                                                                                                                                              | rounded                                                                             | high                                                                                                                                                                                | guide rail                                                                          |                                                                                      |                                                                                                              |                                                                                       |                                                                                       |
| <b>Abbreviation</b>   | <b>SCREEN HR8-ZIP box 110</b>                                                                                                                       |                                                                                     | ZPH074                                                                                                                                                                              | ZPH070                                                                              | ZPH068                                                                               | ZPH069                                                                                                       | ZPH071                                                                                | ZPH072                                                                                |
| <b>Dimension (mm)</b> | 70x70, 90x90, 110x110, 150x150                                                                                                                      | 70x70, 90x90, 110x110, 150x150                                                      | 18x50                                                                                                                                                                               | 30x40                                                                               | 20x40                                                                                | 40x40                                                                                                        | 30x80                                                                                 | 20x80                                                                                 |
| <b>Material</b>       | Al                                                                                                                                                  | Al                                                                                  | Al                                                                                                                                                                                  | Al                                                                                  | Al                                                                                   | Al                                                                                                           | Al                                                                                    | Al                                                                                    |
|                       |                                                                  |  |                                                                                                  |  |  |                         |  |  |
|                       |                                                                                                                                                     |                                                                                     |                                                                                                                                                                                     | type 839                                                                            | type 830                                                                             | type 838                                                                                                     | type 865                                                                              | type 866                                                                              |
| <b>Colour</b>         | Standard:<br>RAL 9006 light silver<br>RAL 9006S light silver structure<br>RAL 9007 dark silver<br>RAL 9007S dark silver structure<br>RAL 9010 white |                                                                                     | RAL 9010S white structure<br>RAL 9010M white matt<br>RAL 7016 anthracite grey<br>RAL 7016M anthracite grey matt<br>RAL 7016S anthracite grey structure<br>RAL 8014S brown structure |                                                                                     |                                                                                      | RAL 8014M brown matt<br>DB 702 Pearl light grey<br>DB 703 Pearl dark grey<br>Other RAL colours upon request* |                                                                                       |                                                                                       |

\*except of plastic parts

## Specification (for handle)

|                       | Box                                                                               |                                                                                   | Bottom rail                                                                       | Side guidance                                                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                       | square                                                                            | rounded                                                                           | rail                                                                              | guide rail                                                                        |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| <b>Abbreviation</b>   | <b>SCREEN HR8-ZIP box 110</b>                                                     |                                                                                   |                                                                                   | ZPH152                                                                            | ZPH153                                                                             | ZPH154                                                                              | ZPH156                                                                              | ZPH155                                                                              |
| <b>Dimension (mm)</b> | 70x70, 90x90, 110x110, 150x150                                                    | 70x70, 90x90, 110x110, 150x150                                                    | 18x50                                                                             | 30x55                                                                             | 20x55                                                                              | 40x55                                                                               | 30x110                                                                              | 20x110                                                                              |
| <b>Material</b>       | Al                                                                                | Al                                                                                | Al                                                                                | Al                                                                                | Al                                                                                 | Al                                                                                  | Al                                                                                  | Al                                                                                  |
|                       |  |  |  |  |  |  |  |  |
|                       |                                                                                   |                                                                                   |                                                                                   | type 829                                                                          | type 820                                                                           | type 828                                                                            | type 855                                                                            | type 856                                                                            |
| <b>Colour</b>         | Standard:<br>RAL 9006 light silver<br>RAL 9007 dark silver<br>RAL 9010 white      |                                                                                   | RAL 7016 anthracite grey<br>RAL 7016S anthracite grey structure<br>RAL 8014 brown | Other RAL colors upon request*                                                    |                                                                                    |                                                                                     |                                                                                     |                                                                                     |

\*except of plastic parts

### 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).

### Common phenomena of technical fabrics

The fabric may curl around the welds or in the middle of the fabric, it is the so-called tree effect. This phenomenon is common because different forces act on the fabric during use. Another phenomenon may be visible bruises on the fabric caused by the roller. These disappear at higher temperatures when the fabric levels.

## Standard Dimensions

### Standard dimensions for box 70

| Control     | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|-------------|------------|------|-------------|------|-----------------------------------|
|             | min.       | max. | min.        | max. | max.                              |
| handle      | 400        | 2500 | 400         | 1200 | 3                                 |
| motor LS40  | 580        | 2500 | 400         | 1200 | 3                                 |
| motor 40 iO | 635        | 2500 | 400         | 1200 | 3                                 |

Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 900 mm

### Standard dimensions for box 90

| Control           | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|-------------------|------------|------|-------------|------|-----------------------------------|
|                   | min.       | max. | min.        | max. | max.                              |
| handle            | 400        | 2800 | 400         | 2500 | 7                                 |
| motor RTS, iO, WT | 795        | 2800 | 400         | 2500 | 7                                 |
| solar system*     | 595        | 2500 | 400         | 3000 | 7                                 |

Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 1800 mm

### Standard dimensions for Box 110

| Control           | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|-------------------|------------|------|-------------|------|-----------------------------------|
|                   | min.       | max. | min.        | max. | max.                              |
| handle            | 400        | 3500 | 400         | 3500 | 10                                |
| motor RTS, iO, WT | 795        | 3800 | 400         | 3500 | 13                                |
| solar system*     | 595        | 2500 | 400         | 3000 | 7,5                               |

Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 2600 mm

### Standard dimensions for box 150

| Control           | Width (mm) |      | Height (mm) |        | Guaranteed area (m <sup>2</sup> ) |
|-------------------|------------|------|-------------|--------|-----------------------------------|
|                   | min.       | max. | min.        | max.   | max.                              |
| handle            | 400        | 3000 | 400         | 5000   | 12                                |
| motor RTS, iO, WT | 795        | 6000 | 400         | 5000   | 18                                |
| solar system*     | 595        | 2500 | 400         | 3000** | 7,5                               |

Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 4500 mm

\* box design angular only

\*\* Max. height with STNZ, STNBZ, SCR4005, SLTZB92, SERGE 3Z fabrics is only 2600 mm

**SCREEN HR8-ZIP (2-01330-XXXX)**

| position       | item name                                          | business name | drawing number                                  |
|----------------|----------------------------------------------------|---------------|-------------------------------------------------|
| <b>1-8</b>     | <b>Screenbox</b>                                   |               | <b>see page 77</b>                              |
| <b>9</b>       | <b>Profiles</b>                                    |               | <b>see Profiles</b>                             |
| <b>19</b>      | <b>Screenfabric (m²)</b>                           |               | <b>see Sampler of Screen fabrics</b>            |
| 20             | Safety lock of bottom slat end piece – LEFT BLACK  | ZPH092/1      | 3-03659-9004                                    |
| 30             | Profile of bottom slat - LEFT BLACK                | ZPH093/1      | 3-03657-9004                                    |
| 40             | Safety lock of bottom slat end piece – RIGHT BLACK | ZPH091/1      | 3-03658-9004                                    |
| 50             | Profile of bottom slat – RIGHT BLACK               | ZPH094/1      | 3-03656-9004                                    |
| 90             | Screw 2,9x9,5                                      | ZPH173        | 6-014233-0000                                   |
| 100            | Screw 2,9x13                                       | 51680.029.013 | 6-014234-0000                                   |
| 110            | Screw 3,5x9,5                                      | A 67/18       | 6-012359-0000                                   |
| 200            | Gudgeon conical 55mm                               | ZPH136        | 6-014238-0000                                   |
| 200            | Gudgeon conical 67mm                               | ZPH139        | 6-013984-0000                                   |
| 200            | End piece of shaft dia. 85 mm – through            | ZPA008/1      | 3-04003-9004                                    |
| 200            | Gudgeon conical 95mm                               | ZPH143        | 6-014237-0000                                   |
| 210            | Gudgeon conical 55mm with square hole 12mm         | ZPH138        | 6-014243-0000                                   |
| 210            | Gudgeon conical 67mm with square hole 12mm         | ZPH141        | 6-013983-0000                                   |
| 221            | Axle square 12mm - round 12mm                      | ZPH127        | 6-014271-0000                                   |
| <b>510</b>     | <b>Screenmotors (SOMFY)</b>                        |               | <b>see page 84</b>                              |
| <b>520</b>     | <b>Manual control</b>                              |               | <b>see page 83</b>                              |
| <b>900-910</b> | <b>Guidance - rail/cable - left - right</b>        |               | <b>see Guidance - rail/cable - left - right</b> |

**Profiles (3-03054-PU11)**

| position | item name                      | business name | drawing number |
|----------|--------------------------------|---------------|----------------|
| 5        | Profile reinforcement dia. 8mm | ZPH077        | 6-013966-0000  |
| 6        | Profile reinforcement 20x12    | ZPH076        | 6-013971-0000  |
| 7        | High bottom rail               | ZPH074        | 6-014021-0000  |
| 8        | Plastic bar 3,0 mm PVC         | ZP0097/0003   | 6-016911-0003  |
| 11       | Rubber for bottom rail ALFA    | ZPH116/1      | 7-303664-0000  |
| 19       | Roll for fabric dia. 40mm - 6m | ZPH122        | 6-014229-0000  |
| 20       | Roll for fabric dia. 55mm - 6m | ZPH123        | 6-014027-0000  |
| 21       | Roll for fabric dia. 67mm - 6m | ZPH124        | 6-013982-0000  |
| 22       | Roll for fabric dia. 85mm - 7m | ZPA020        | 6-016860-0000  |
| 23       | Roll for fabric dia. 95mm - 6m | ZPH126        | 6-014231-0000  |
| 24       | Profile for fabric run-on      | ZPH115-1      | 6-013986-0000  |
| 25       | Plastic bar 4,0 mm PVC         | ZP0097/0004   | 6-016911-0004  |

**Guidance - rail/cable - left - right (2-01634-PU11L/P)**

| position | item name                              | business name | drawing number |
|----------|----------------------------------------|---------------|----------------|
| 10       | Guide rail 830                         |               | 6-014418-0000  |
| 11       | Guide rail 838                         |               | 6-014419-0000  |
| 12       | Guide rail 839                         |               | 6-014417-0000  |
| 13       | Guide rail 865                         |               | 6-014420-0000  |
| 14       | Guide rail 866                         |               | 6-014421-0000  |
| 15       | Guide profile for zip v3               | ZPH145        | 6-014155-0000  |
| 20       | Spring for guiding profile for zip     | ZPH147/1      | 7-303662-0000  |
| 30       | Synthetic clips for guide rail - black | ZPH099        | 6-013993-0000  |
| 40       | Screw 4,2x25 DIN 7981                  | 51660.042.025 | 6-014157-0000  |
| 80       | End piece VL - 40 mm                   | ZPH095/1      | 3-03667-9004   |
| 81       | ALU endstop double guide               | ZPH127        | 6-014442-0000  |
| 200      | Guide rail holder 50mm                 | ZPH082        | 6-014549-0000  |
| 201      | Guide rail holder 60mm                 | ZPH083        | 6-014550-0000  |
| 202      | Guide rail holder 100 mm               | ZPH084        | 6-014552-0000  |
| 203      | Guide rail holder 130mm                | ZPH085        | 6-014542-0000  |
| 210      | Screw m4x5 stainless                   | 51340.040.005 | 6-014559-0000  |
| 220      | Washer M4                              | 51930.040.001 | 6-014560-0000  |
| 230      | Nut M4                                 | 51080.040.001 | 6-014561-0000  |

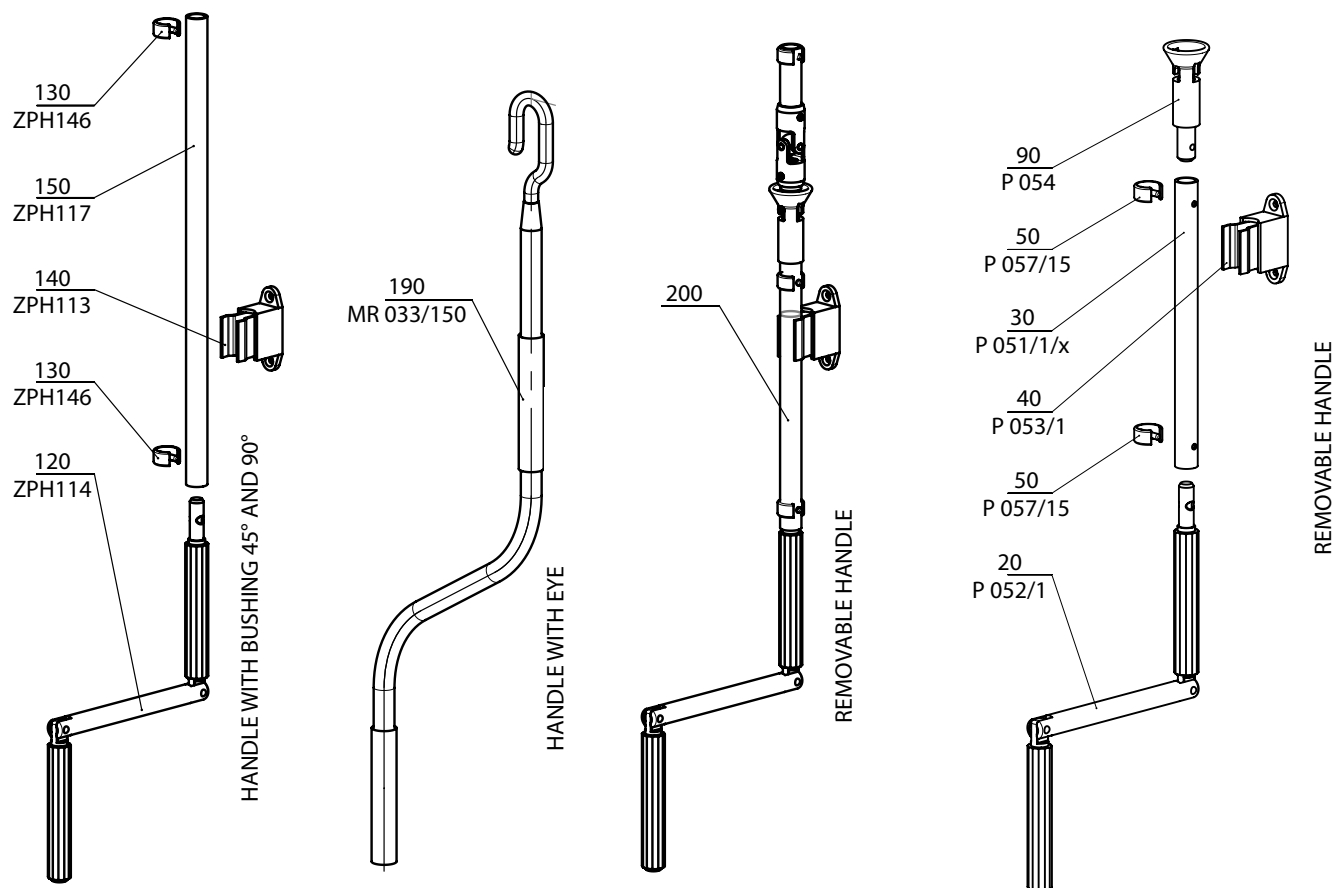


**SCREEN HR8-ZIP box 110 (2-01330-0110)**

| position   | item name                                          | business name | drawing number     |
|------------|----------------------------------------------------|---------------|--------------------|
| 3          | Profile BOX 110mm - front part square              | ZPH007        | 6-013978-0000      |
| 3          | Sidewall 110mm square - RIGHT                      | ZPH024        | 6-013977-0000      |
| 3          | Sidewall 110mm square - LEFT                       | ZPH023        | 6-013975-0000      |
| 3,7        | Profile BOX 110mm - rear part                      | ZPH009        | 6-013976-0000      |
| 3,7        | Clip VL ZIP                                        | ZPH099        | 6-013993-0000      |
| 3,7        | Guide profile for zip v3                           | ZPH145        | 6-014155-0000      |
| 3,7        | Spring of zip guide rail                           | ZPH147/1      | 7-303662-0000      |
| 3,7        | End piece VL - 40 mm                               | ZPH095/1      | 3-03667-9004       |
| 3,7        | End cap of guide rail - 55 mm                      | ZPH159        | 6-014830-9005      |
| 7          | Sidewall 110mm rounded - LEFT                      | ZPH021        | 6-014147-0000      |
| 7          | Profile BOX 110mm - front part rounded             | ZPH008        | 6-014146-0000      |
| 7          | Sidewall 110mm rounded - RIGHT                     | ZPH022        | 6-014148-0000      |
| 9          | Profile reinforcement dia. 8mm - Fe/Zn             | ZPH077        | 6-013966-0000      |
| 9          | Profile reinforcement 20x12mm - Fe/Zn              | ZPH076        | 6-013971-0000      |
| 9          | Bottom rail high - 6,05m                           | ZPH074        | 6-014021-0000      |
| 9          | Plastic bar 3,0 mm PVC                             | ZP0097/0003   | 6-016911-0003      |
| 9          | Rubber for bottom rail ALFA                        | ZPH116/1      | 7-303664-0000      |
| 9          | Roller tube Al diameter 55mm - 6m                  | ZPH123        | 6-014027-0000      |
| 9          | Roller tube Al diameter 67mm - 6m                  | ZPH124        | 6-013982-0000      |
| 9          | Roller tube Al diameter 95mm - 6m                  | ZPH126        | 6-014231-0000      |
| 9          | Roller tube dia. 85x1, 20 mm – 6 m                 | ZPA020        | 6-016860-0000      |
| 9          | Plastic bar 4,0 mm PVC                             | ZP0097/0004   | 6-016911-0004      |
| 9          | Plastic bar 6,0 mm PVC                             | ZP0097/0006   | 6-016911-0006      |
| 9          | Profile for fabric run-on                          | ZPH115-1      | 6-013986-0000      |
| 20         | Safety lock of bottom slat end piece – LEFT BLACK  | ZPH092/1      | 3-03659-9004       |
| 30         | Profile of bottom slat - LEFT BLACK                | ZPH093/1      | 3-03657-9004       |
| 40         | Safety lock of bottom slat end piece – RIGHT BLACK | ZPH091/1      | 3-03658-9004       |
| 50         | Profile of bottom slat – RIGHT BLACK               | ZPH094/1      | 3-03656-9004       |
| 200        | Cap of roller tube dia. 55mm                       | ZPH136        | 6-014238-0000      |
| 201        | Cap of roller tube dia. 67mm                       | ZPH139        | 6-013984-0000      |
| 202        | End piece of shaft dia. 85 mm – through            | ZPA008/1      | 3-04003-9004       |
| 203        | Cap of roller tube dia. 95mm                       | ZPH143        | 6-014237-0000      |
| 210        | Cap of roller tube dia. 55mm with square hole 12   | ZPH138        | 6-014243-0000      |
| 211        | Cap of roller tube dia. 67mm with square hole 12   | ZPH141        | 6-013983-0000      |
| 212        | Insert for shaft end piece – dia. 50 mm            | ZPA017        | 3-03486-9004       |
| 220        | Pin of roller tube cap - 12mm Fe/Zn                | ZPH129        | 6-013985-0000      |
| 232-235    | Mounting bracket - box 110mm                       | ZPH080        | 6-014342-0000      |
| <b>510</b> | <b>Motors (SOMFY, BECKER) SCREEN HR7/HR8-ZIP</b>   |               | <b>see page 84</b> |
| 510        | Driver LT50 HI - dia. 65mm                         | ZPH160        | 6-013980-0000      |
| 510        | Driver LT50 HI - dia. 85mm                         | ZPH161        | 6-014326-0000      |
| 510        | Driver LT50 HI - dia. 95mm                         | ZPH162        | 6-014327-0000      |
| 510        | Driver LS40 - dia. 50mm                            | ZPH163        | 6-014328-0000      |
| 510        | Flat bearing plate - BLACK                         | ZPH104        | 6-014333-9004      |
| 510        | Bearing plate with clip - BLACK                    | ZPH105        | 6-014334-9004      |

## SCREEN HR7 a HR8-ZIP

### Control - handle



2-01372-XXXX-0

2-01436-XXXX-A

#### Control handle – SCREEN HR (2-01372-XXXX-0)

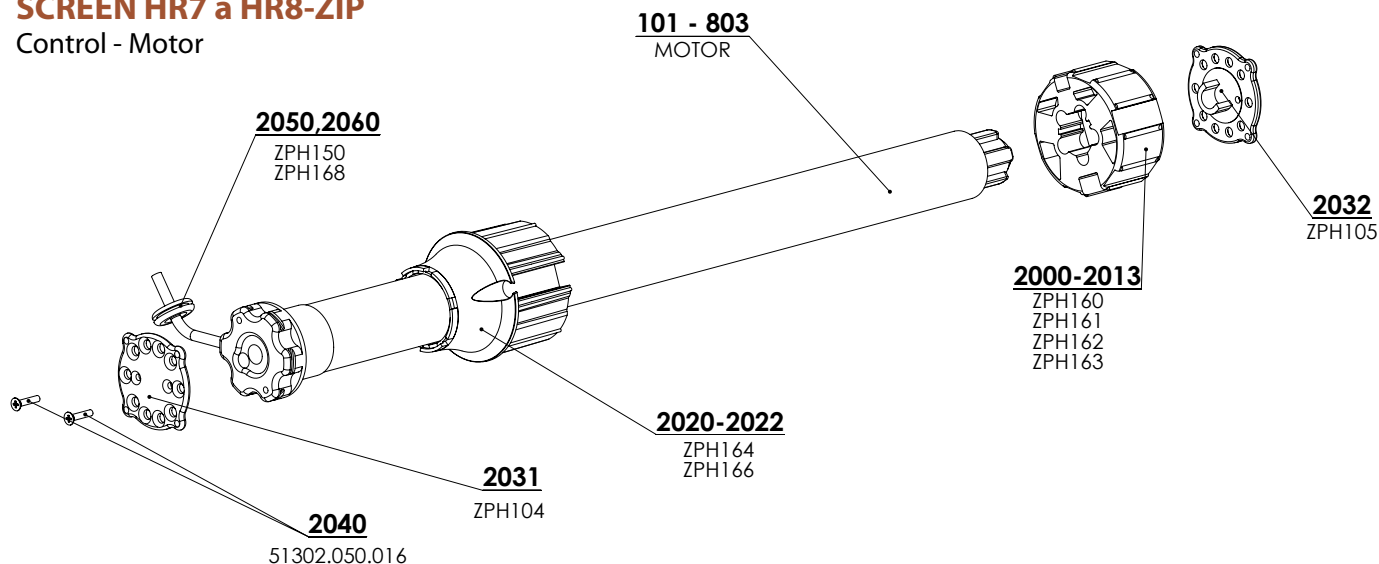
| position | item name                       | business name | drawing number |
|----------|---------------------------------|---------------|----------------|
| 120      | Cranked handle                  | ZPH114        | 6-014323-0000  |
| 130      | Locking ring with pin           | ZPH146        | 6-014451-0000  |
| 140      | Handle holder                   | ZPH113        | 6-014319-0000  |
| 150      | Connecting tube PVC – dia 12 mm | ZPH117        | 6-014324-0000  |
| 190      | Handle for awnings 1500 mm      | MR 033/150    | 6-011095-1500  |
| 200      | Handle removable for SCREEN     |               | 2-01436-0000   |

#### Handle removable for SCREEN (2-01436-XXXX-0)

| position | item name                           | business name | drawing number |
|----------|-------------------------------------|---------------|----------------|
| 20       | Cranked handle Al – dia 12 mm grey  | P 052/1       | 6-006682-0000  |
| 30       | Connecting tube Al – dia 15 mm elox | P 051/1/X     | 7-301797-PU52  |
| 40       | Handle holder– universal grey       | P 053/1       | 6-006683-7045  |
| 50       | Locking ring with pin 15 mm grey    | P 057/15      | 6-006467-7035  |
| 90       | Handle funnel square                | P 054         | 6-001190-0000  |

**SCREEN HR7 a HR8-ZIP**

Control - Motor

**Screen motors (SOMFY) (2-00530-0002)**

| Position | item name                          | business name | drawing number |
|----------|------------------------------------|---------------|----------------|
| 101-103  | Motor altus 50 rts 06/17           | MR 091/06     | 6-011170-xxxx  |
| 201-203  | Motor sunea 50 screen io 06/17     | ZP0084        | 6-012559-xxxx  |
| 301-303  | Motor maestria +50 io 06/17 vvf5m  | ZP0084/1      | 6-012538-xxxx  |
| 2000     | Driver lt50 hi - dia. 65Mm         | ZPH160        | 6-013980-0000  |
| 2011     | Driver lt50 hi - dia. 85Mm         | ZPH161        | 6-014326-0000  |
| 2012     | Driver lt50 hi - dia. 95Mm         | ZPH162        | 6-014327-0000  |
| 2013     | Driver ls40 - dia. 50Mm            | ZPH163        | 6-014328-0000  |
| 2020     | Adaptor s40 - dia. 50Mm            | ZPH164        | 6-014330-0000  |
| 2022     | Adaptor ls/lt50 - dia. 65 Mm       | ZPH166        | 6-014332-0000  |
| 2031     | Bearing plate - flat - black       | ZPH104        | 6-014333-9004  |
| 2032     | Bearing plate - with clip - black  | ZPH105        | 6-014334-9004  |
| 2040     | Screw m5x16                        | 51302.050.016 | 6-014338-0000  |
| 2050     | Cable grommer - rubber - dia. 7 Mm | ZPH150        | 6-014339-0000  |
| 2060     | Cable clip 600x4,8 - black         | ZPH168        | 6-014438-0000  |

**Screen motors (SOMFY) HR7/HR8-ZIP – BOX 70 (2-00530-0004)**

| Position | item name                       | business name | drawing number |
|----------|---------------------------------|---------------|----------------|
| 20       | Motor LS 40                     | PR0125        | 6-002624-0009  |
| 30       | Motor Sunea 40 Screen IO        | ZP0091/16     | 6-014483-0009  |
| 40       | Motor holder LS 40              | ZPH167        | 6-014336-0000  |
| 50       | Adapter LS 40                   | ZPH164        | 6-014331-0000  |
| 60       | Driver LS 40                    | ZPH163        | 6-014328-0000  |
| 70       | Flat bearing plate              | ZPH104        | 6-014333-9004  |
| 80       | Bearing plate with clip         | ZPH105        | 6-014334-9004  |
| 90       | Rubber cable grommet diameter 7 | ZPH150        | 6-014339-0000  |
| 100      | Cable clip 300x4,8              | ZPH168        | 6-014438-0000  |
| 110      | Screw 3,5x16 DIN 7982           | VRH 130       | 6-014674-0000  |

**Motors (Becker) Screen HR7/HR8-ZIP (6-015258 / 6-012538 / 6-002624 / 6-014483)**

| Position | item name                           | business name  | drawing number |
|----------|-------------------------------------|----------------|----------------|
| 510      | Motor BECKER 50 E 08/17             | X.2010/1301590 | 6-017861-0008  |
| 510      | Motor BECKER 50 E 12/17             | X.2010/1301600 | 6-017861-0012  |
| 510      | Motor BECKER 50 E 20/17             | X.2010/1301450 | 6-017861-0020  |
| 500      | Motor BECKER 50 Screen C 08/17 PLUS | X.2010/1302170 | 6-018761-0008  |
| 500      | Motor BECKER 50 Screen C 12/17 PLUS | X.2010/1302180 | 6-018761-0012  |
| 500      | Motor BECKER 50 Screen C 20/17 PLUS | X.2020/1301860 | 6-018761-0020  |

\*Note: E=electronic motor / C=radio motor

**Motors (ISOTRA BASIC) Screen HR8 ZIP - BOX 110**

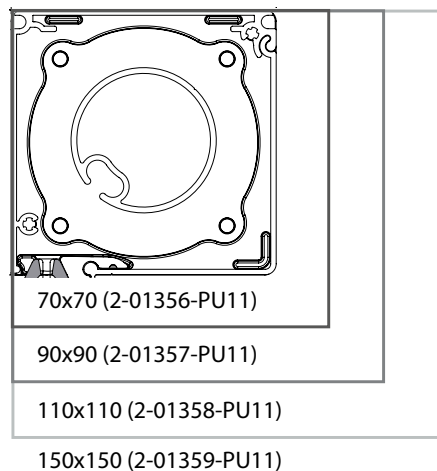
| position | item name                                                     | business name | drawing number |
|----------|---------------------------------------------------------------|---------------|----------------|
| 600      | Motor ISOTRA BASIC, 10Nm/17,with integrated receiver, SC zip  | X.AM45 10/17S | 6-019173-0010  |
| 600      | Motor ISOTRA BASIC, 15Nm/17,with integrated receiver, SC zip  | X.AM45 15/17S | 6-019173-0015  |
| 600      | Motor ISOTRA BASIC, 20Nm/17, with integrated receiver, SC zip | X.AM45 20/17S | 6-019173-0020  |

## SCREEN HR8-ZIP

### Technical Specification

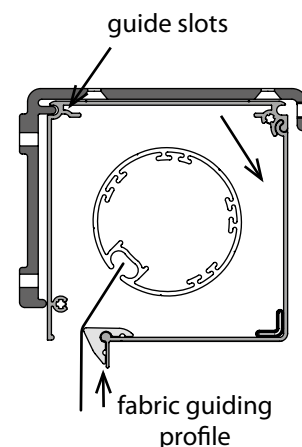
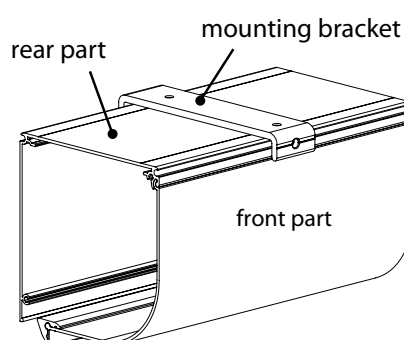
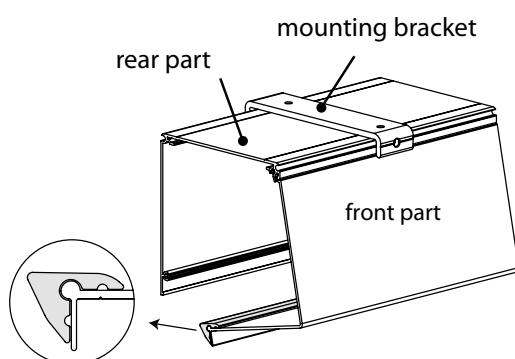
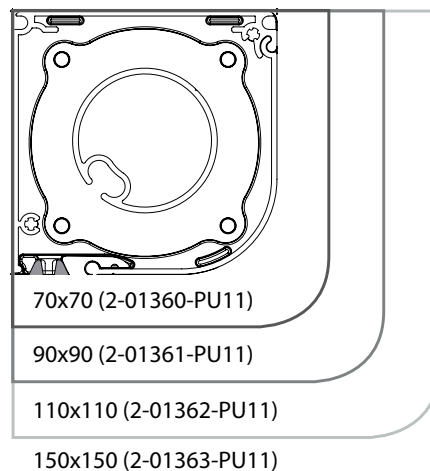
#### Head rail - square

(2-01356, 2-01357, 2-01358, 2-01359)



#### Head rail - rounded

(2-01360, 2-01361, 2-01362, 2-01363)

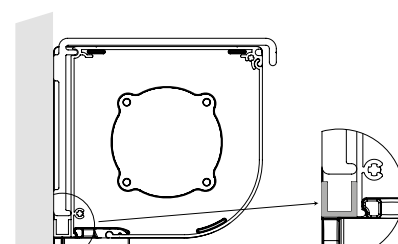


### Finishing back side of the screenbox

#### U-profile width - horizontal

The gap between box and wall can be filled up horizontal with U-profile of 10 x 10 x 10 mm, the length is defined by the box width.

To use with: - mounting bracket

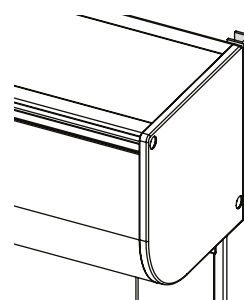


U-profile width - horizontal

#### U-profile height vertical

The gap between box and wall can be filled up with a U-profile (10x10x10 mm), the length is defined by the box height.

To use with: - mounting brackets



U-profile height - vertical



**Mounting bracket - box 70 mm, 90 mm, 110 mm, 150 mm**  
(6-014340, 6-014341, 6-014342)

**Material:** extruded aluminium with a powder coating finish  
For installation of the box independent from the guides: standard for cable guide

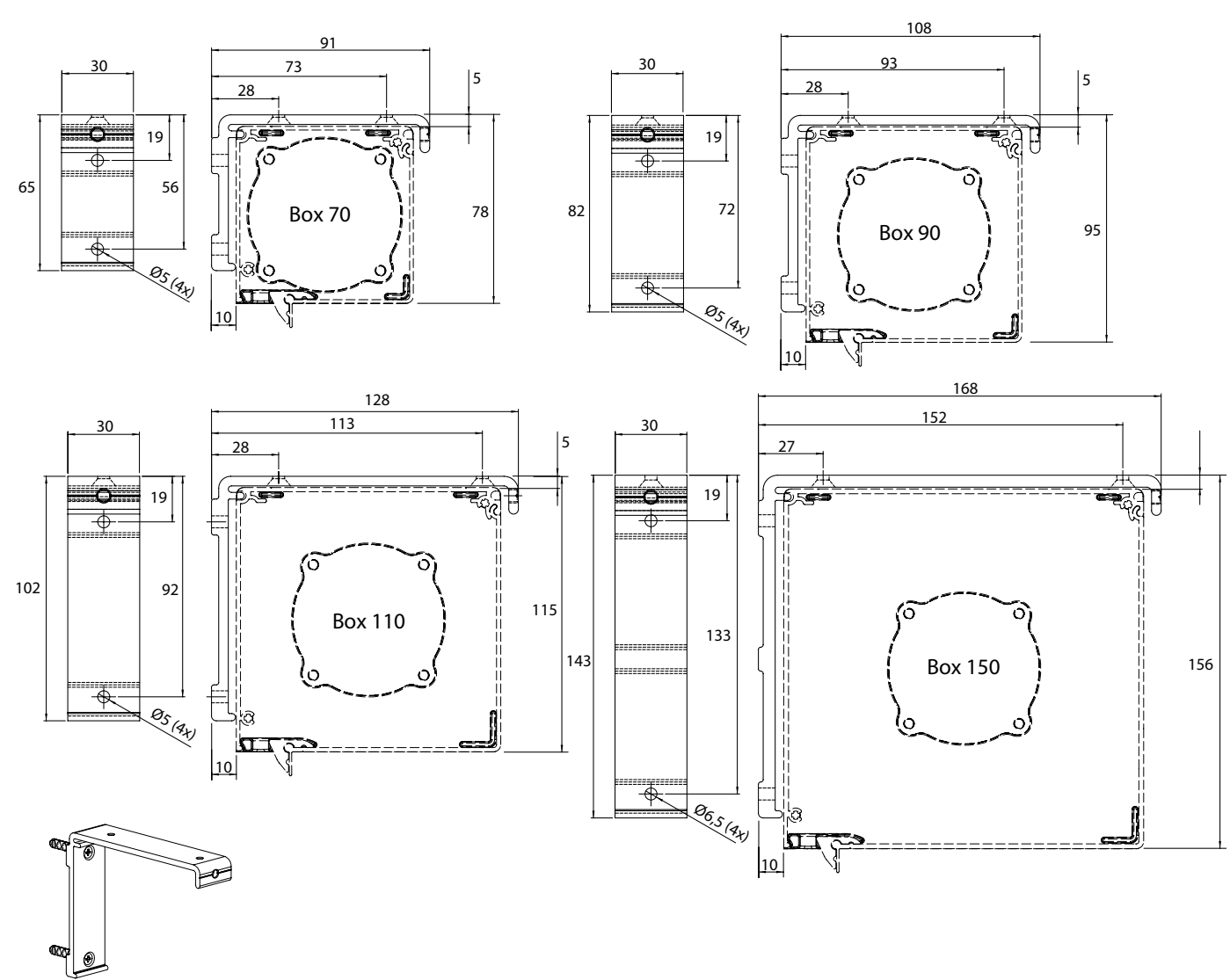
**Standard number of mounting brackets:**

| Screen width (mm) | Box       |           |
|-------------------|-----------|-----------|
|                   | 70 - 90   | 110 - 150 |
| 0 – 1500          | 0 (2*) pc | 2 pc      |
| 1501 – 3000       | 3 pc      | 3 pc      |
| 3001 – 4500       | 4 pc      | 4 pc      |
| 4501 - 6000       | 5 pc      | 5 pc      |

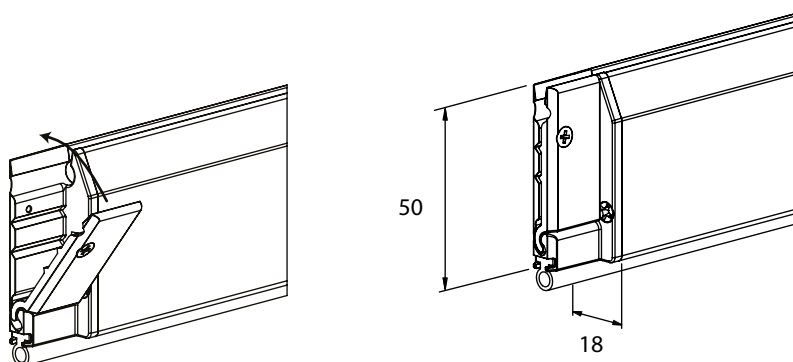
\* If specified the mounting bracket in the order form there will be supplied 2 pieces of mounting bracket (up to the width of the roller shutter 1500 mm is the self-supporting roller blind).

If the mounting bracket is used, we recommend using guide rails of types A829, A839, A828, A838, A837, A865 and A855.

**Width:** 30 mm  
Brings the rear face of the box 10 mm forward for cable guide.



### Bottom rail high (6-014021-0000)



#### Material: extruded aluminium profile with:

- a powder coated finish
- a room for a weighting strip.
- a fabric groove.
- a groove for sealing rubber

Fabric is attached to bottom rail without screws, using a plastic tube  $\varnothing$  3 mm.

Partially concealed in the screen box when fabric is rolled up

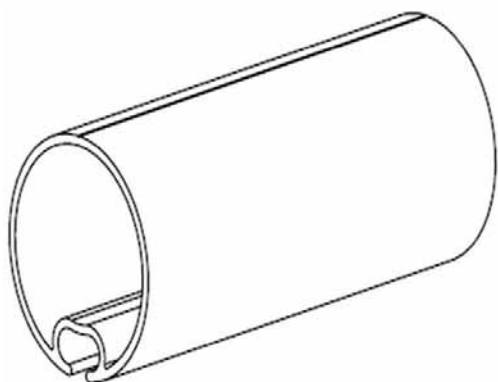
Optional: rubber strip on the bottom rail

#### Sliding blocks

in 2 parts for a good clamping of the fabric.

#### Roller tube diameter 40mm – 6m, 55mm – 6m, 67mm – 6m, 85mm – 6m, 95mm – 6m

(6-014229-0000, 6-014027-0000, 6-013982-0000, 6-016860-0000, 6-014231-0000)



Material: Extruded aluminium for tubes ( $\varnothing$ 40,  $\varnothing$ 55 or  $\varnothing$ 67 mm) or zinc steel for tube  $\varnothing$ 85 mm and  $\varnothing$ 95 mm.

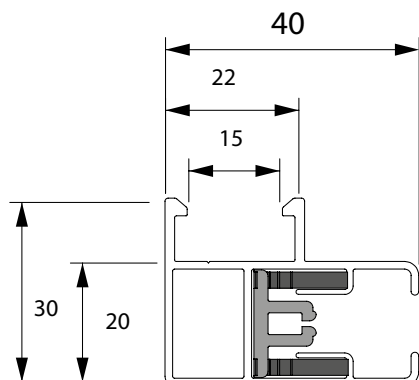
With a fabric groove for attaching the fabric using a plastic tube of  $\varnothing$ 4 mm for tube  $\varnothing$ 40 mm,  $\varnothing$ 55 mm,  $\varnothing$ 67 mm and  $\varnothing$ 6 mm for tube  $\varnothing$ 85 mm.

## Guide rails (for motor)

**Material:** Material: extruded aluminium profiles with a powder coated finish

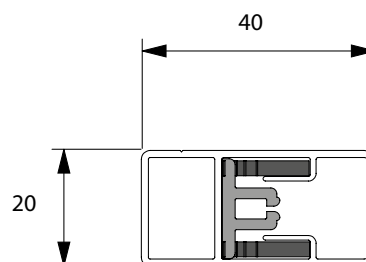
### Guide rail T839 (6-014417)

- standard guide for clips attachment or small distance relative to the rear side (10 mm).



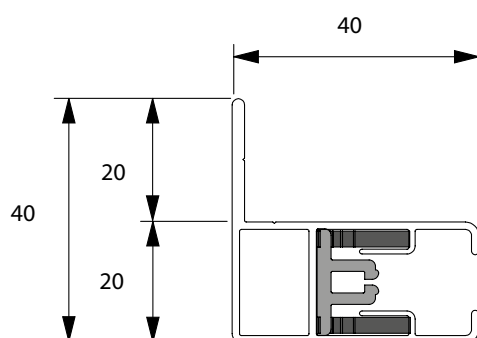
### Guide rail T830 (6-014418)

- flat guide without attachment clips.



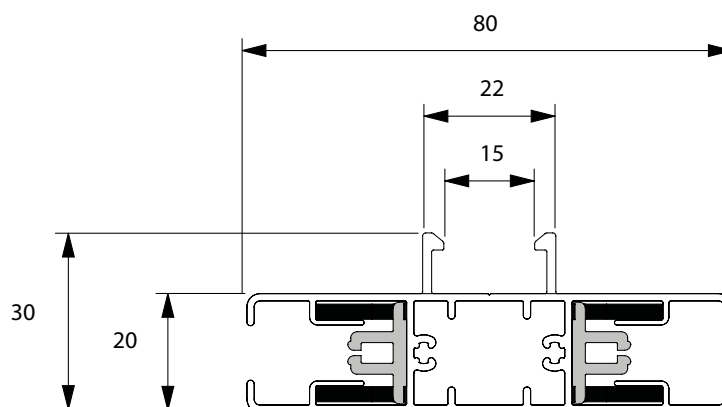
### Guide rail T838 (6-014419)

- guide rail with short assembly flange.  
- used for pergola mounting

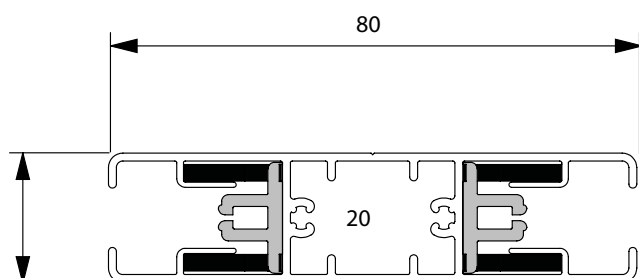


### Guide rail T865 (6-014420)

- intermediate guide



### Guide rail T866 (6-014421) - intermediate guide

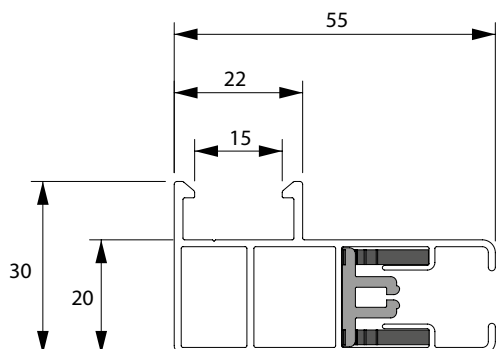


## Guide rails for handle

### Material: extruded aluminium profiles with a powder coated finish

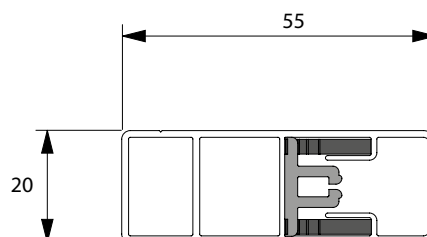
#### Guide rail T829 (6-013989)

- standard guide for clips attachment or small distance relative to the rear side (10 mm).



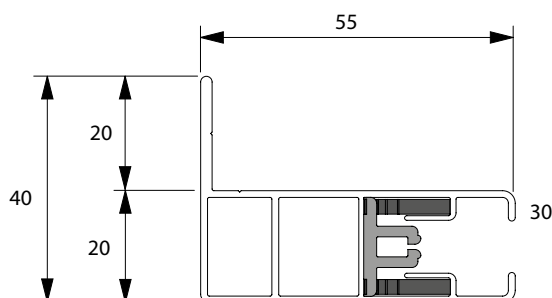
#### Guide rail T820 (6-014152)

- fl at guide without attachment clips.



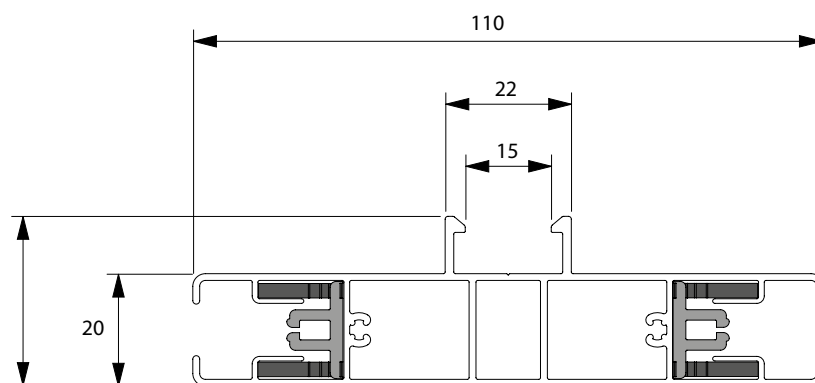
#### Guide rail T828 (6-014153)

- guide rail with short assembly flange.



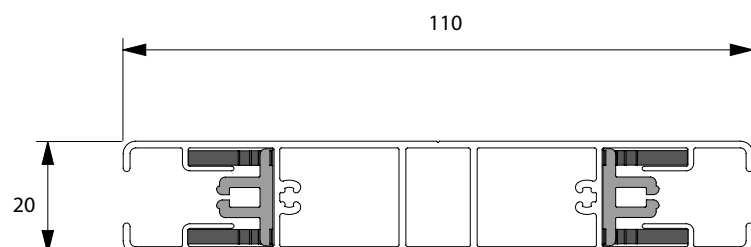
#### Guide rail T855 (6-014827)

- intermediate guide



#### Guide rail T856 (6-014154)

- intermediate guide



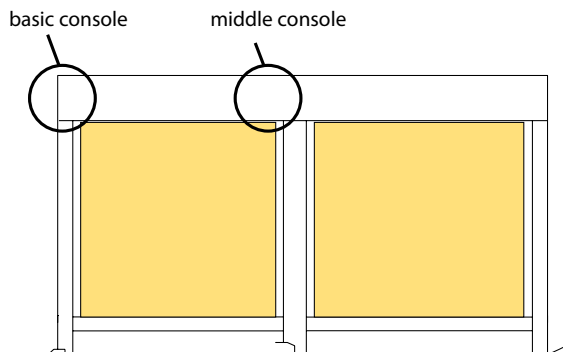
### Guide rails - frontway/sideway drilling (200 mm on both sides from the edges)

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| up to a height of 1500 mm       | 2 openings (on the edges)                                |
| more than 1500 mm up to 3000 mm | 3 openings (2 openings on the edges + 1 centre opening)  |
| from 3000 mm up to 4500 mm      | 4 openings (2 openings on the edges + 2 centre openings) |
| from 4500 mm                    | 5 openings (2 openings on the edges + 3 centre openings) |

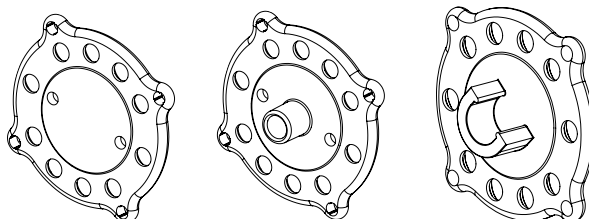
## Consoles

**Basic consoles:** - aluminium consoles with die-casted guide pin (= pin mounting) or  
 - die-casted fastening hook (= flange mounting).  
 - complete with universal bearing plates in black synthetic material.

**Middle consoles:** - aluminium console with die casted guide pin:  
 - can hold the bearing for the coupled screen or universal bearing plate.



## Universal bearing plate



## Operating exit

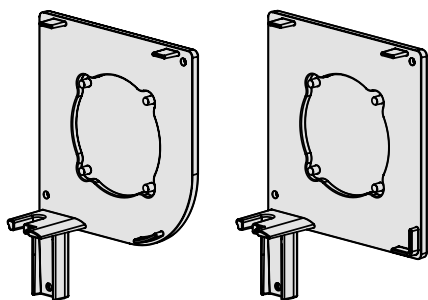
| Type of installation | Control         | O  |    |     |     | A  |    |     |     | E/H* |    |     |     | T  |    |     |     | B  |    |     |     |
|----------------------|-----------------|----|----|-----|-----|----|----|-----|-----|------|----|-----|-----|----|----|-----|-----|----|----|-----|-----|
|                      |                 | 70 | 90 | 110 | 150 | 70 | 90 | 110 | 150 | 70   | 90 | 110 | 150 | 70 | 90 | 110 | 150 | 70 | 90 | 110 | 150 |
| A-AE                 | Motor           | x  | x  | x   | x   | x  | x  | x   | x   | o    | o  | x   | x   |    |    |     |     |    |    |     |     |
|                      | Handle 45°      |    |    |     |     |    |    |     |     |      |    |     |     | x  | x  | x   | x   |    |    |     |     |
|                      | Handle 90°      | o  | x  | x   | x   | x  | x  | x   | x   |      |    |     |     |    |    |     |     |    |    |     |     |
|                      | Handle          |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |
| B-BE                 | Handle with eye |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |
|                      | Motor           |    |    |     |     |    |    |     |     | o    | o  | x   | x   |    |    |     |     | x  | x  | x   | x   |
|                      | Handle 45°      |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |
|                      | Handle 90°      |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     | x  | x  | x   | x   |
|                      | Handle          |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |
|                      | Handle with eye |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |

| Type of installation | Control         | K  |    |     |     | P  |    |     |     | Q/D* |    |     |     | C  |    |     |     | S  |    |     |     |
|----------------------|-----------------|----|----|-----|-----|----|----|-----|-----|------|----|-----|-----|----|----|-----|-----|----|----|-----|-----|
|                      |                 | 70 | 90 | 110 | 150 | 70 | 90 | 110 | 150 | 70   | 90 | 110 | 150 | 70 | 90 | 110 | 150 | 70 | 90 | 110 | 150 |
| A-AE                 | Motor           |    |    |     |     |    |    |     |     |      |    |     |     |    |    | x   | x   |    |    |     |     |
|                      | Handle 45°      |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |
|                      | Handle 90°      |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |
|                      | Handle          |    |    |     |     |    |    |     |     | o    | o  | o   | x   |    |    |     |     |    |    |     |     |
| B-BE                 | Handle with eye |    |    |     |     |    |    |     |     | o    | o  |     |     |    |    |     |     | o  | o  |     |     |
|                      | Motor           | x  | x  | x   | x   |    |    |     |     | o    | o  | o   | x   |    |    |     |     |    |    |     |     |
|                      | Handle 45°      |    |    |     |     |    |    |     |     |      |    |     |     | x  | x  | x   | o   |    |    |     |     |
|                      | Handle 90°      | x  | x  | x   | x   |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |
|                      | Handle          |    |    |     |     |    |    |     |     | o    | o  | o   | x   |    |    |     |     |    |    |     |     |
|                      | Handle with eye |    |    |     |     |    |    |     |     |      |    |     |     |    |    |     |     |    |    |     |     |

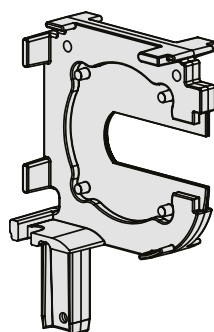
|      |                                                               |
|------|---------------------------------------------------------------|
| x    | Possible                                                      |
| x    | Only possible with square boxes                               |
|      | Usage of small handle with eye                                |
|      | Usage of big handle with eye                                  |
| E/H* | To use under overhang or inside because of water penetration. |
| o    | not possible                                                  |

## Ping guide assembly

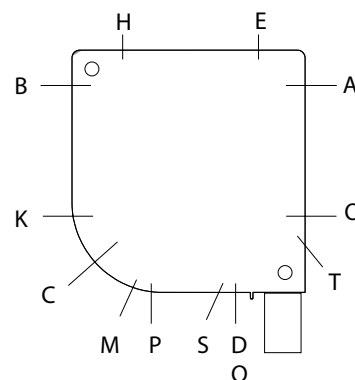
basic console



middle console



## Operating exits for motor



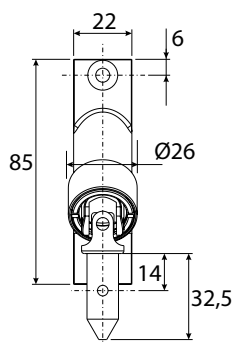
## Control - handle

### Inside operation

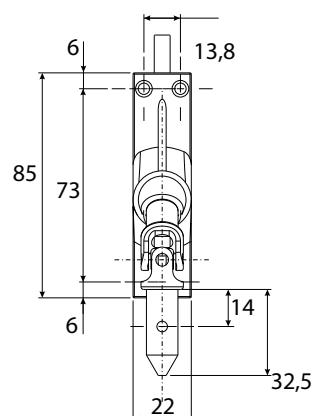
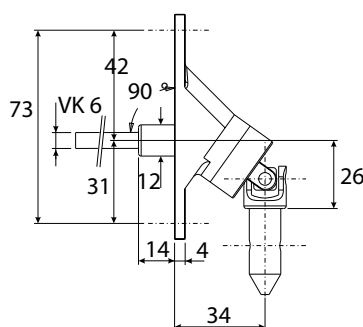
- Standard:
- grey plasticized foldable handle,
  - 90° or 45° or 0° cardan joint (handle material: 6 mm square, length 320 mm),
  - magnetic bracket for securing the handle to the wall,
  - the handle length depends on the screen height:  
 $L = H - 150 \text{ mm}$  (with 90° joint),  $L = H - 350 \text{ mm}$  (with 45° and 0° joint).

- Options:
- detachable handle with tulip coupling,
  - without detachable handle, with tulip coupling

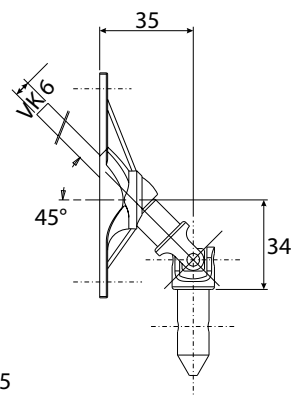
Note: The plate of the hinge set cannot be fixed directly onto the box, a separate box space is therefore required.



cardan joint 90°



cardan joint 45°

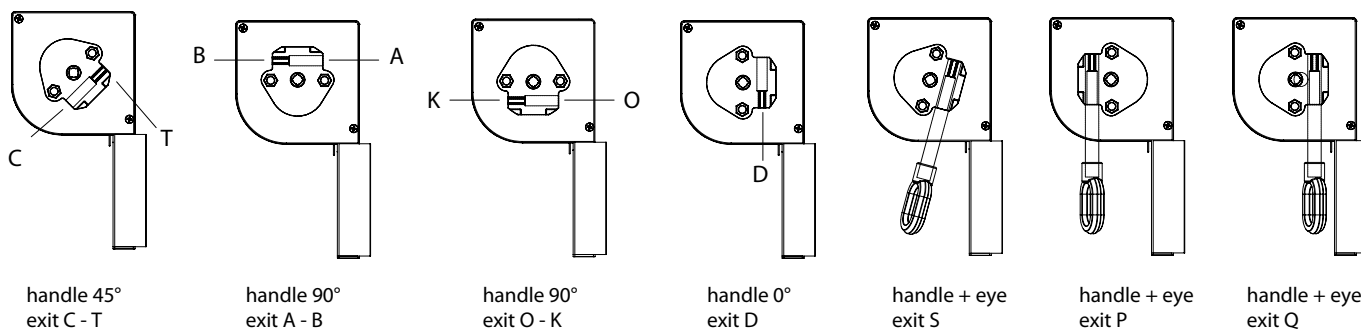


## Outside operation

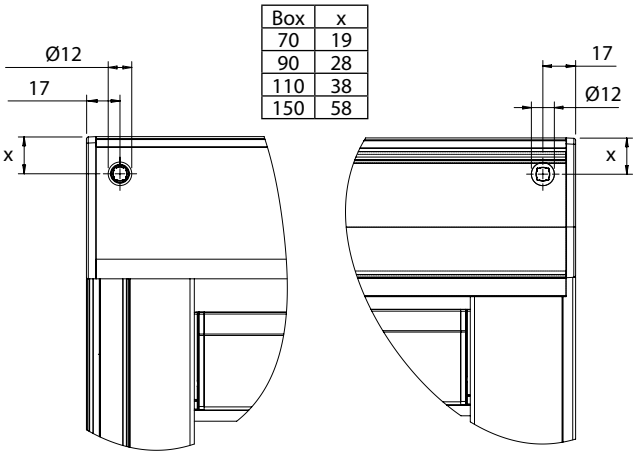
- Standard:
- Handle operation with eye, removable handle with laying hook; length 1500 mm
- Option:
- other handle lengths are possible at extra cost

Attention: foresee enough side space ( $\pm 10 \text{ mm}$ ) to turn the hook of the handle with eye

## Operating exit for handle

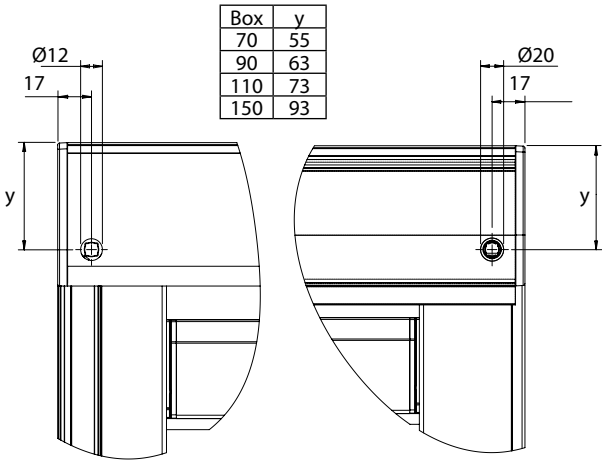


Operating exits for handle through wall



handle 90°  
exit A

handle 90°  
exit B

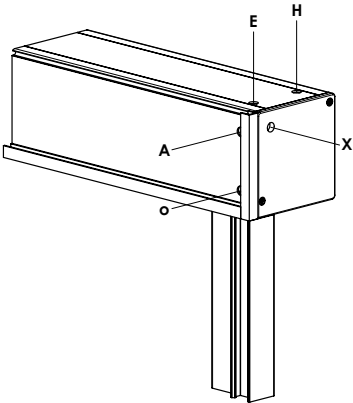
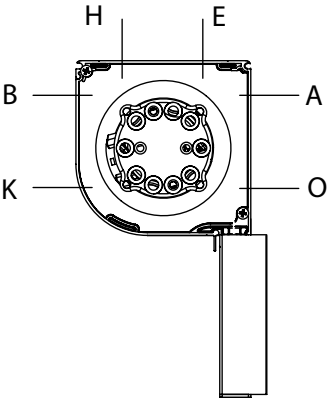


handle 90°  
exit O

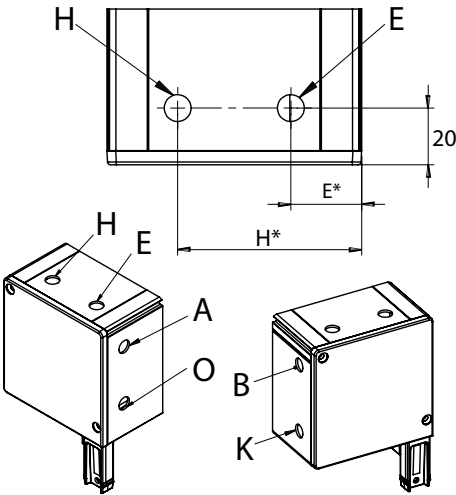
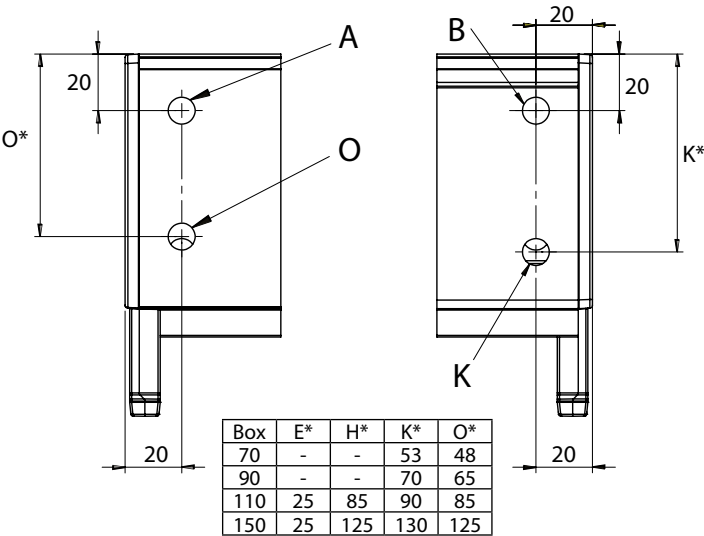
handle 90°  
exit K

Control – motor

Choice of cable location



left, terminal X (from side part) for box 110 and 150 only  
right, terminal X (from side part) for box 110 and 150 only





## Coupled screens

It is possible to use 1 box for 2 or 3 fabric parts

DVC: screens directly next to each other;

- with small guides 865/866

DVS: Screens with at least 1 gap;

- with small guides 839,830, 838,865 or 866

Maximum 6 m box width.

Possible with 1, 2 or 3 operations.

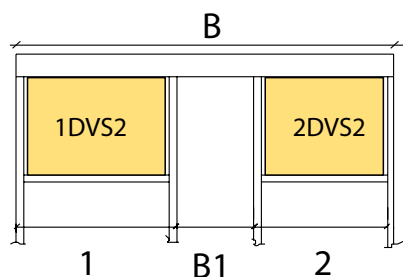
- Minimum width per part is depending the operation.

- Maximum overall width per operation.

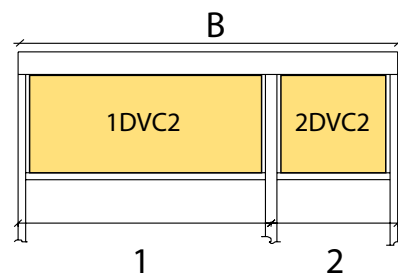
- Handle and electrical operation can be coupled up to 6 m.

- It is recommended to place the operating unit in the largest screen when possible.

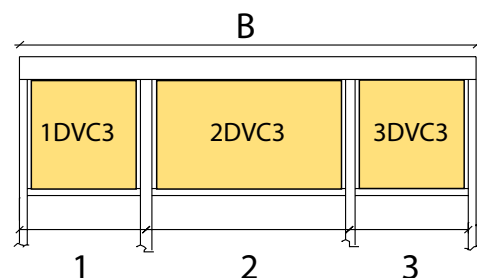
Not possible with box type 150.



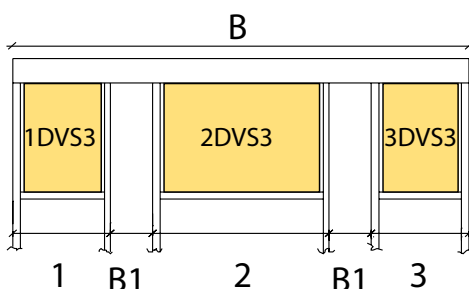
1DVC2 - 1st screen of 2 screens in common box  
2DVC2 - 2nd screen of 2 screens in common box



1DVC2 - 1st screen of 2 screens in common box  
2DVC2 - 2nd screen of 2 screens in common box



1DVC3 - 1st screen of 3 screens in common box  
2DVC3 - 2nd screen of 3 screens in common box  
3DVC3 - 3rd screen of 3 screens in common box



1DVS3 - 1st screen of 3 screens in common box  
2DVS3 - 2nd screen of 3 screens in common box  
3DVS3 - 3rd screen of 3 screens in common box

B = box width

B1 = width between screens

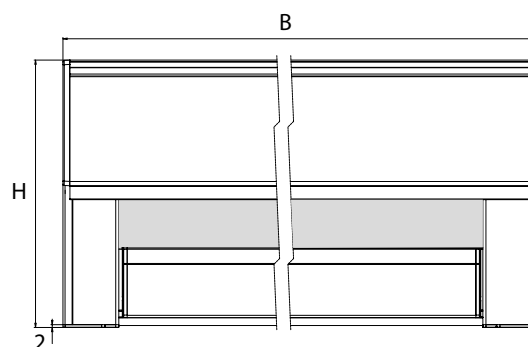
## SCREEN HR8-ZIP

### Measurement

Finished width B = size between rear ends of the consoles.

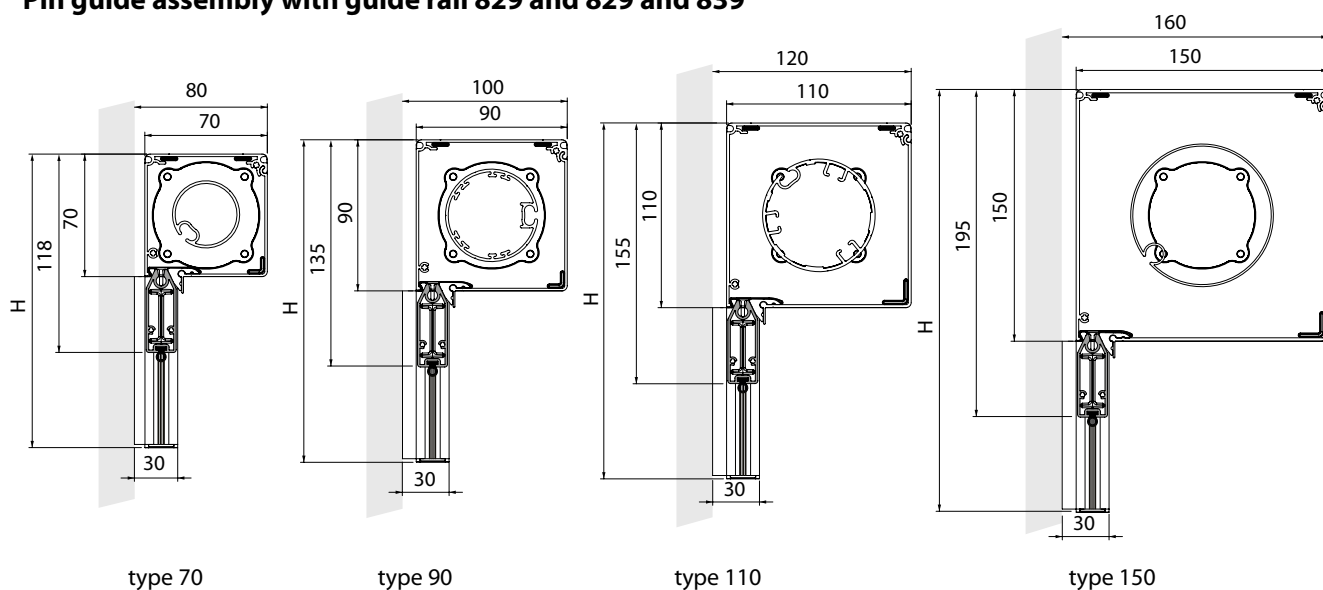
Finished height H = height including the box, including the guide end caps (thickness = 2 mm) excluding mounting brackets

More information in the separate document **Measurement and assembly instructions**.



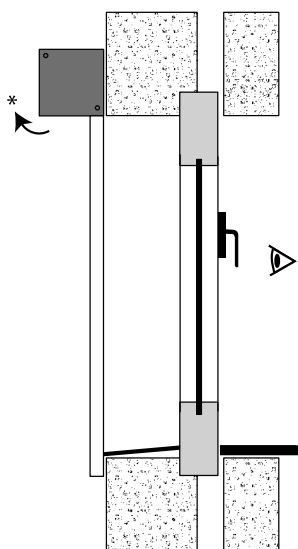
## Assembly

### Pin guide assembly with guide rail 829 and 829 and 839

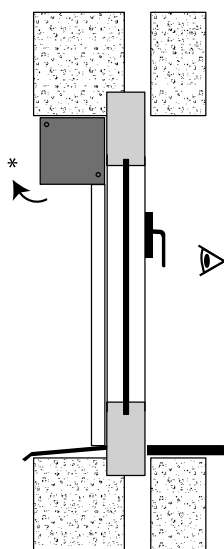


### Assembly types

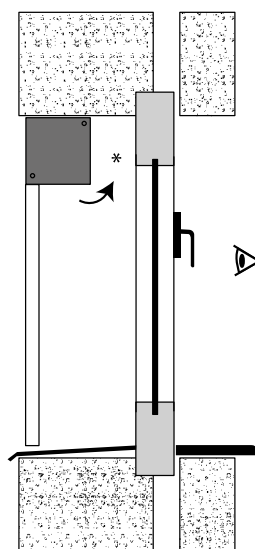
#### Type A-AE (on the wall)



#### Type A-AE (into reveal)

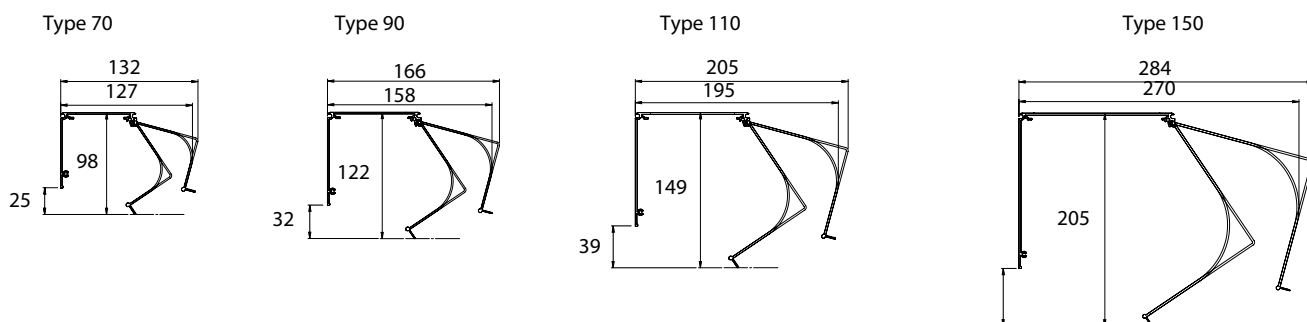


#### Type B-BE (into reveal)



- A - coiling outwards „A“ (standard)
- AE - coiling outwards „AE“ (exterior is lighter)
- B - coiling inwards „B“
- BE - coiling inwards „BE“ (exterior is lighter)

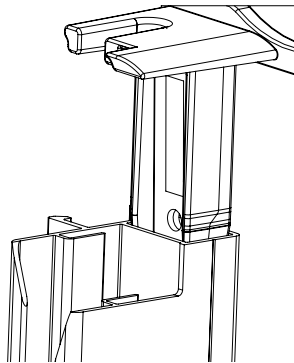
\*space to open the box



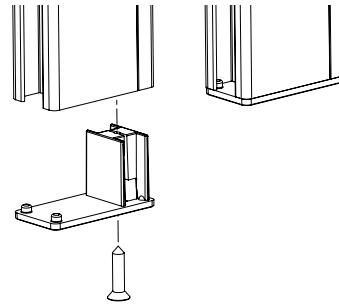
## Ping guide assembly

The screenbox is assembled onto the guides. The guides mover over the pin of the consoles.

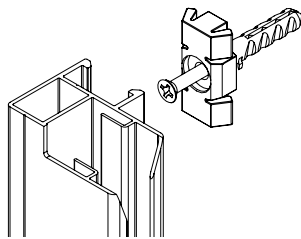
Pin guide assembly



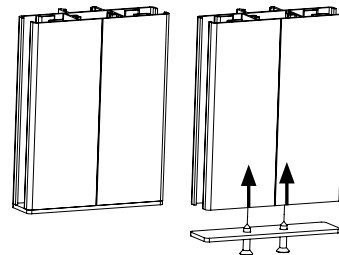
End stop pin guide assembly



Clips for guide 839 or 865



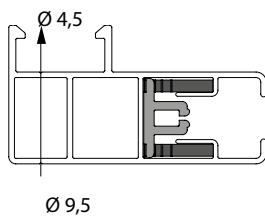
End stop pin guide assembly intermediate guide



With AI end stops on the bottom part for the end stop of bottom rail; thickness 2 mm.

Some guides can be supplied with pre-drilled holes in the rear or side faces.

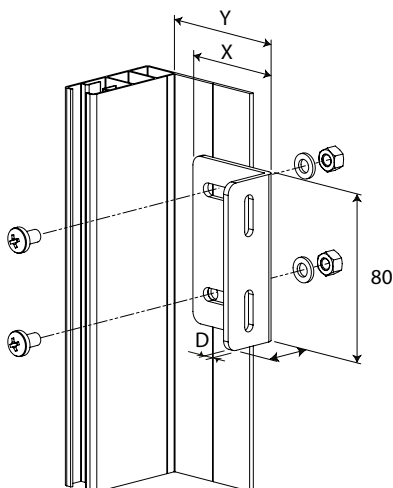
Drilling on the front:



Guide rails for drilled openings on the front side:

| Drilling  | 829/839 | 820/830 | 828/838 | 855/865 | 856/866 |
|-----------|---------|---------|---------|---------|---------|
| Side face | x       | x       | -       | x       | x       |

Distance support for guide rail 828 and 828 and 838:



| X × H × D    | X   | Y       | drawing number |
|--------------|-----|---------|----------------|
| 50 × 30 × 3  | 50  | 50–65   | 6-014549-0000  |
| 60 × 30 × 3  | 60  | 60–75   | 6-014550-0000  |
| 100 × 30 × 3 | 100 | 100–115 | 6-014552-0000  |
| 130 × 30 × 3 | 130 | 130–145 | 6-014542-0000  |

## SCREEN HR7 and HR8-ZIP

### Assembly

Based on the installation situation, there are several ways the screen can be installed:

**Method 1.** Affix the box using the mounting brackets, then slide the guide rails onto the console pivot and secure the guide rails with screws.

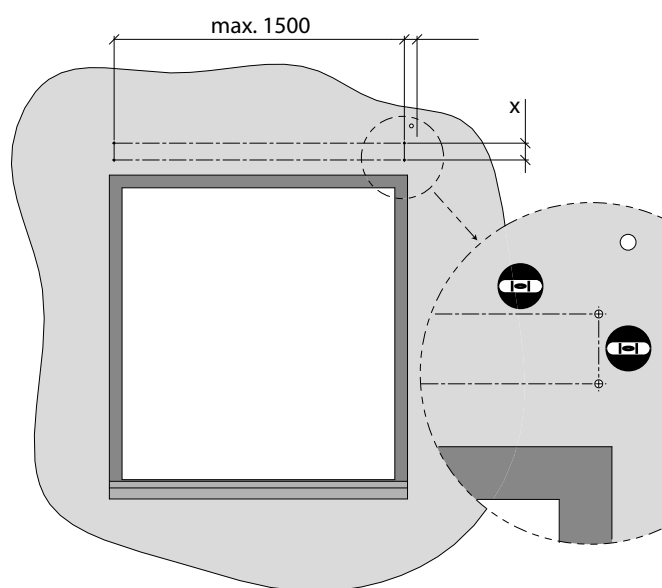
**Method 2.** Place the complete box / guide rail assembly in or against the window opening and screw them in place.

**Method 3.** Screw the guide rails in place. Then push the box onto the guide rails and secure it in place.

#### METHOD 1

**Affix the box using the mounting brackets, then slide the guide rails onto the console pivot and secure the guide rails with screws**

##### Step 1: Drilling holes for the mounting brackets



| Box type | X   |
|----------|-----|
| 70       | 37  |
| 90       | 53  |
| 110      | 73  |
| 150      | 114 |



spirit level

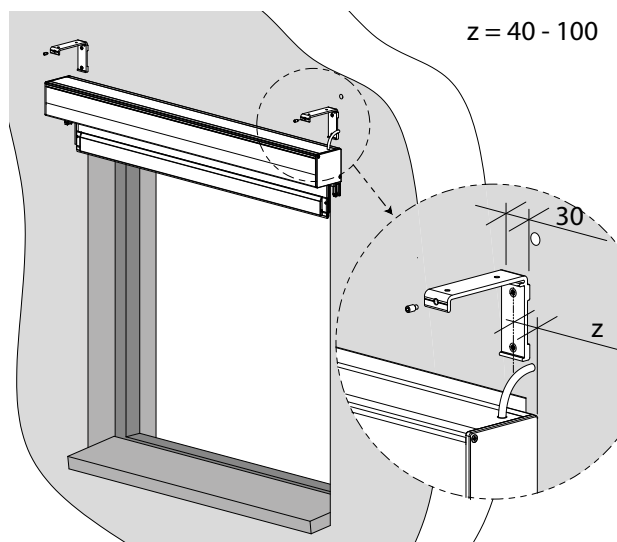
Place the mounting brackets against the mounting surface. Use the upper holes for mounting against a ceiling and the rear holes for mounting against a wall. The box must be perfectly level, so make sure the brackets are aligned properly. Use a hose level and a plumb line or another suitable tool for this task.

##### Step 2: Installing the box on the mounting brackets

One mounting bracket per console, as close as possible to the console.

Any additional brackets are mounted in the middle of the box, evenly spaced across its width, and are intended to prevent wider boxes from sagging.

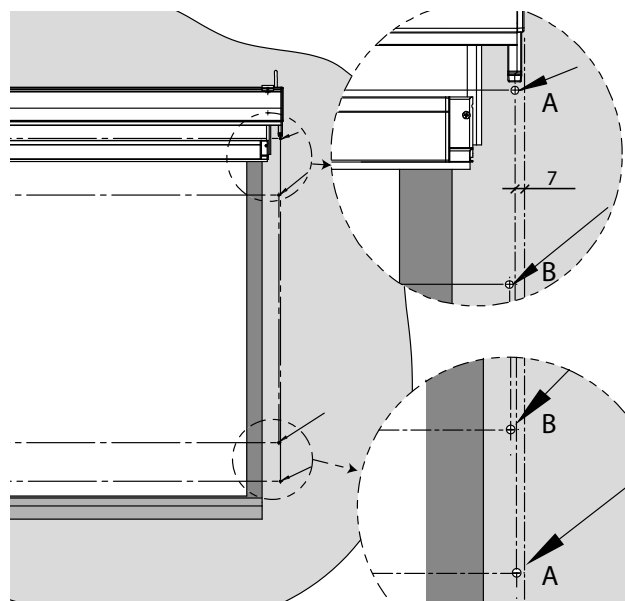
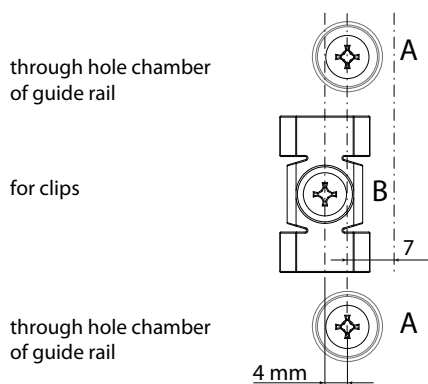
- (1) Push the box upwards into the mounting brackets.
- (2) Feed the motor cable through to the inside. Then push the box into the brackets so the slots in the back of the box engage with the L-profilings.
- (3) Next tighten the Allen screws of each bracket. The screws should grip in the slots at the top of the front of the box.



### Step 3: Drilling the mounting holes for the guide rails

Mark the holes to be drilled on the wall or on the mounting surface. Use the pre-drilled lateral guide rails for this procedure. Drill the holes in the wall ( $\varnothing 6$  mm) or in the window frame ( $\varnothing 3.2$  mm).

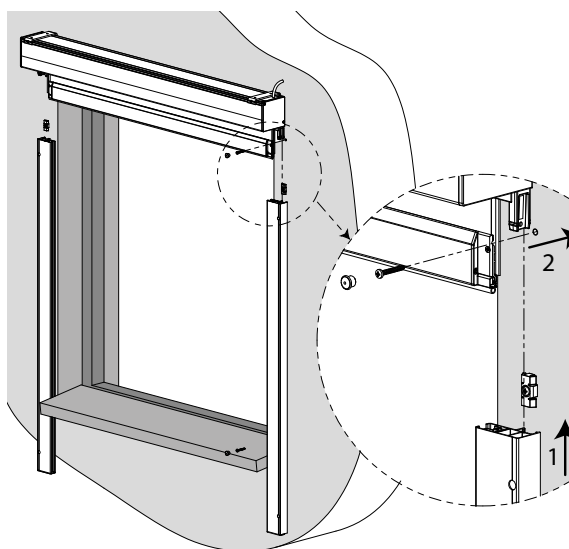
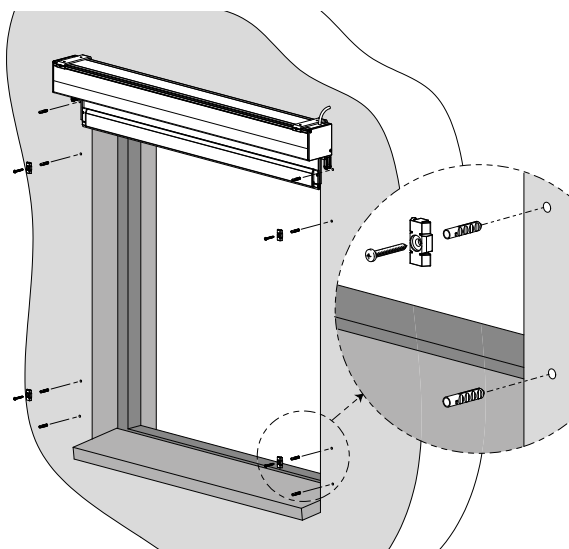
For installation to the wall, insert S6 plugs into the holes.



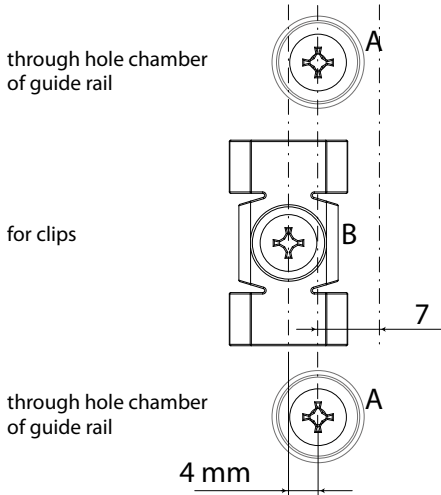
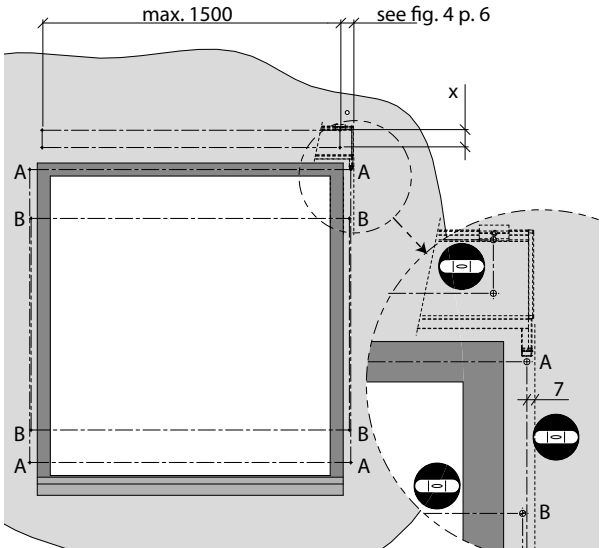
### Step 4: Installing the guide rails

(1) Affix the clips to the mounting surface. Next slide the guide rails onto the guide rail pivots of the side consoles. Make sure the sliding blocks of the bottom slat enter the guide rail slots correctly and the zipper on the fabric slides into the U-shaped part of the plastic guide profile.

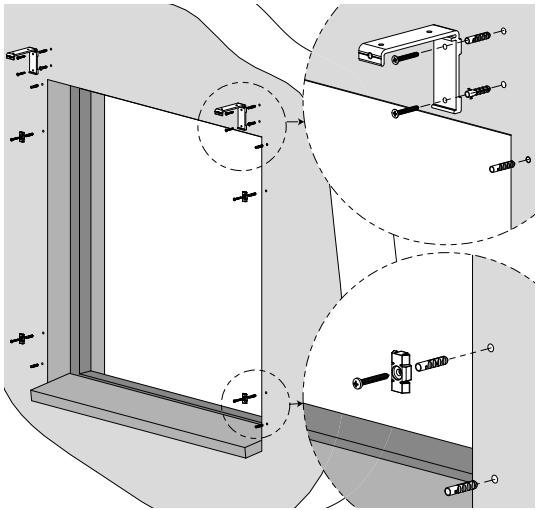
(2) Screw the guide rails to the mounting surface.



**METHOD 2:**  
**Place the complete box / guide rail assembly in or against the window opening and screw them in place.**



| Box type | X   |
|----------|-----|
| 70       | 37  |
| 90       | 53  |
| 110      | 73  |
| 150      | 114 |



**Step 1: Drilling holes for the mounting brackets and guide rails**

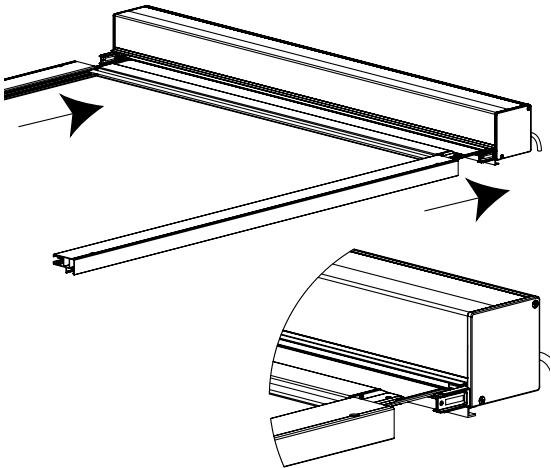
Mark the holes to be drilled on the wall or on the mounting surface (use the pre-drilled lateral guide rails for this purpose).

(If supplied, affix the box mounting bracket(s) first.)

Drill the holes in the wall (Ø6 mm) or in the window frame (Ø3.2 mm).

For installation to the wall, insert S6 plugs into the holes.

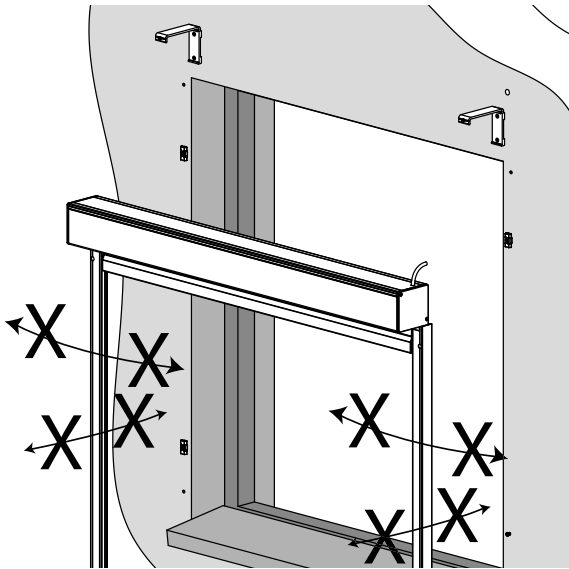
Affix the clips to the mounting surface.



**Step 2: Sliding the guide rails over the console pivots on the bottom of the box**

Place the screen box on the cardboard packaging (take care not to damage the paint finish).

Next slide the pre-drilled guide rails onto the console pivots on each of the side consoles.



Make sure the sliding blocks of the bottom slat enter the guide rail slots correctly and the zipper on the fabric slides into the U-shaped part of the plastic guide profile.

### Step 3: Positioning the box and the guide rails

Now lift the screen box with the guide rails. Do this with at least two persons. Support the box and the guide rails at the same time.

Place the complete screen assembly in or against the window opening.

For motorised operation, feed the motor cable inside through the previously drilled lead-through.

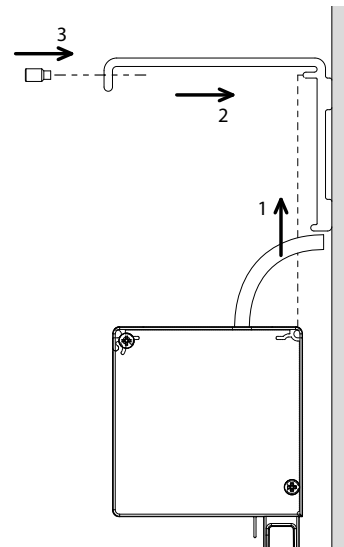


**Attention! Be careful not to break off the pivots of the box by moving the guide rails too much forwards, backwards or sideways.**

### Step 4: Attaching the box to the mounting brackets and screwing the guide rails in place

- (1) Push the box upwards into the mounting brackets.
- (2) Feed the motor cable through to the inside. Then push the box into the brackets so the slots in the back of the box engage with the L-profilings.
- (3) Next tighten the Allen screws of each bracket. The screws should grip in the slots at the top of the front of the box.

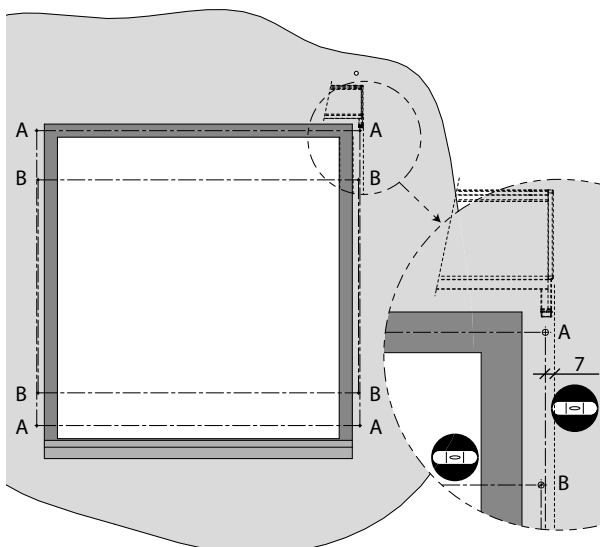
Screw the guide rails to the mounting surface.



**Make sure the box is always securely mounted.**

### METHOD 3:

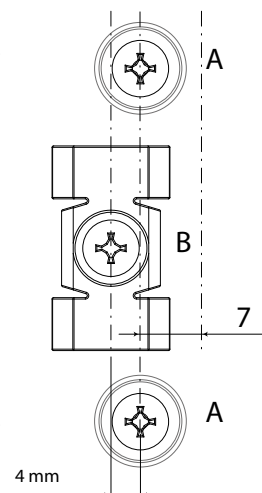
**Screwing the guide rails in place and then pushing the box onto the guide rails (only for screens without mounting brackets)**

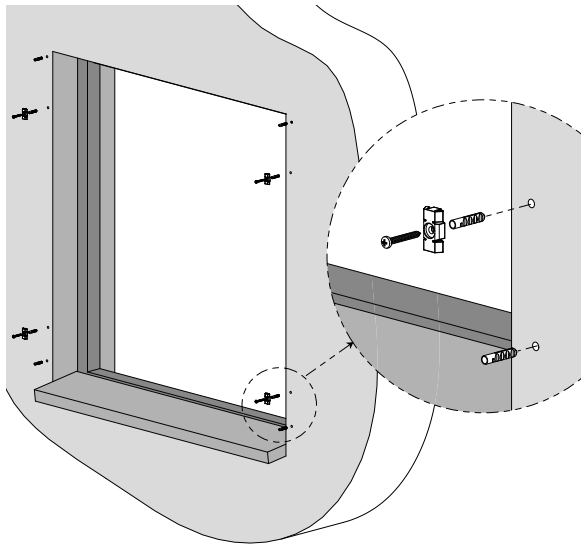


through hole chamber of guide rail

for clips

through hole chamber of guide rail





### Step 1: Drilling mounting holes and affixing the clips

Mark the holes to be drilled on the wall or on the mounting surface (use the pre-drilled lateral guide rails for this purpose).

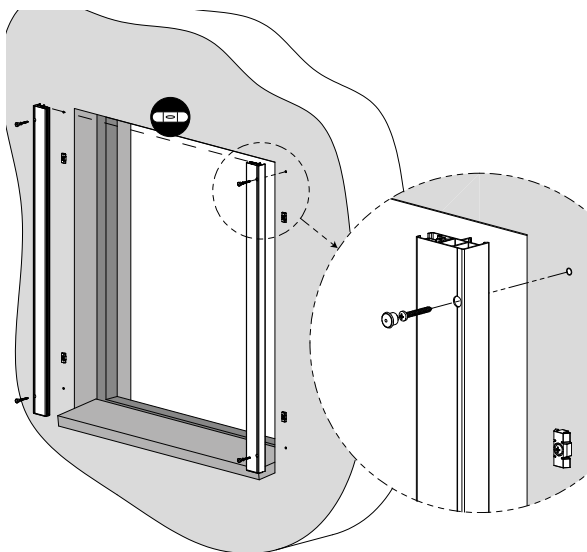
Drill the holes in the wall (Ø6 mm) or in the window frame (Ø3.2 mm), no more than 500 mm apart.

For installation to the wall, insert S6 plugs into the holes.

Affix the clips to the mounting surface.

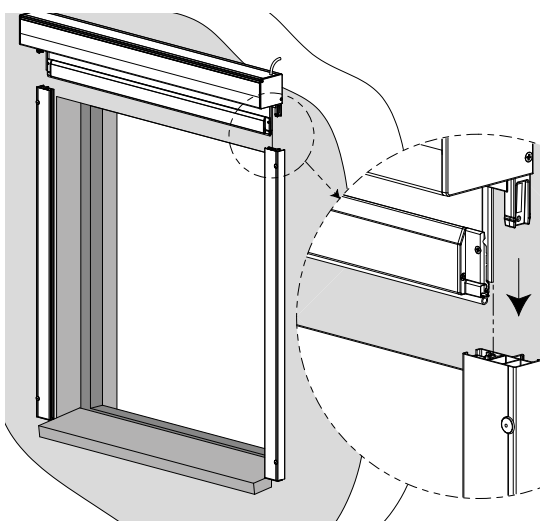


spirit level



### Step 2: Mounting the guide rails.

Screw the guide rails to the mounting surface. Make sure the top of the guide rails are positioned at exactly the same height and are level.



### Step 3: Sliding the screen box onto the guide rails

Lift the box and feed the motor cable to the inside.

Slide the screen box so the console pivots fit into the corresponding hole chambers of the lateral guide rails.

Make sure the sliding blocks of the bottom slat enter the guide rail slots correctly and the zipper on the fabric slides into U-shaped part of the plastic guide profile.

After the installation of the roller shutter it is necessary to remove the side-wall remove the cable clamp.



**Make sure the box is always securely mounted.**

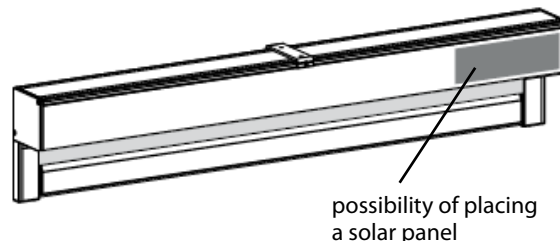


## SCREEN HR8-ZIP SOLAR

Screen blind with exterior solar power supply is a unique and fully automated blind that is wirelessly controlled and has zero power consumption. This blind works on the principle of the so-called photovoltaic phenomenon – i.e. the conversion of solar radiation into electricity. This is the most environmentally friendly and energy-saving roller shutter solution. The drive is powered by a long-life battery recharged by a solar panel that works in all weather conditions. Maximum area 7.5 m<sup>2</sup>. One solar unit is adapted for only one screen roller blind.

### Parameters of this product:

- Box design angular only
- Pipe ø 55 mm
- Dimensions of the solar panel: see page 72
- Standard - internal battery for box 150 only
- Optional – use of external battery for box 90 and 110
- The solar panel is always on the motor side
- Installation of the B-BE type (in the block) is not possible
- Possibility of multiple blinds in a common box, provided that each roller shutter will have its own motor and external battery.



### Parts of the solar set:

- \*Motor
- Solar panel Oximo WireFree resin 3.2 W Solar panel
- Oximo WireFree batteries, NiMH 12V, 2.2 Ah
- Oximo WireFree Wiring Harness Adapter Cable

#### \* Motor

| itemname                          | business name | drawingnumber |
|-----------------------------------|---------------|---------------|
| SOLAR KIT „SUNEA 40 io“ 6/18      | X.1241890     | 6-018887-0006 |
| SOLAR KIT „SUNEA 40 io“ 10/12     | X.1241891     | 6-018887-0010 |
| SOLAR KIT „SUNEA 40“ 6/18 RTS DC  | X.1241478     | 6-017545-0006 |
| SOLAR KIT „SUNEA 40“ 10/12 RTS DC | X.1241479     | 6-017545-0010 |

### Oximo WireFree Battery

- Battery Type NiMH
- Size 420mm x ø 25 mm
- IPx4 protection class
- Charging time max. 3.5 hours

### Oximo WireFree solar panel

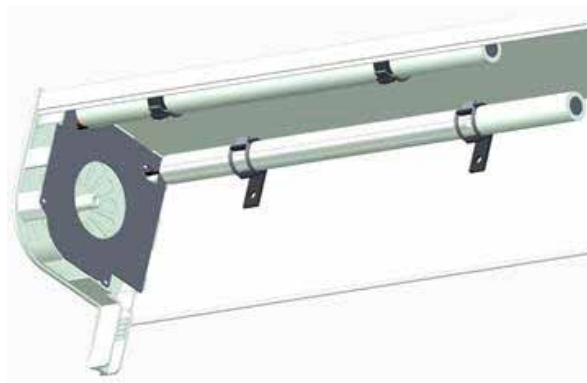
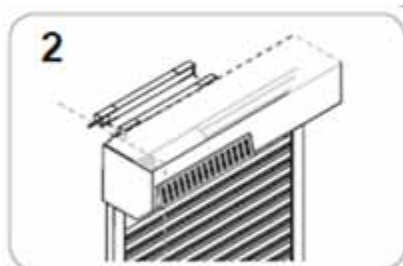
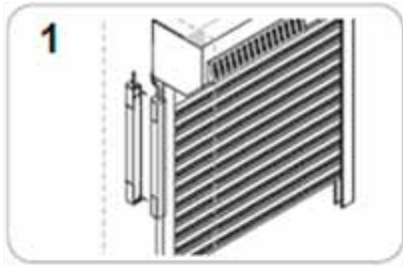
- Material laminated black fiberglass with transparent epoxy resin with photovoltaic technology
- Input power 3.2 W
- Dimensions 470 x 60 x 6 mm
- Protection class X4 (cells sensitive to light: IP67)
- Supplies energy even when the sky is cloudy

**Installation:**

The battery can be installed in the room, but can also be placed from the outside in a roller box, but provided that it is not exposed to direct sunlight and rain.

The working temperature is from  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ . The IP protection class is X4, which means that the product is splash-proof at all angles.

The Oximo WireFree™ battery must be installed so that it is protected from the weather. For example, it can be mounted behind the guide rail (1), behind the roller box or underneath the box (2), inside the roller box (3), under the window frame or in the corner of the inner wall. Attention! The battery must be accessible in any position of the roller shutter so that the PROG button is always accessible for maintenance and recharging with external charger or for replacement. Do not seal the battery in an airtight case. If the battery is installed in a position other than horizontal, the power cord should always point upwards.



Example of placing the battery inside the box.

The battery located inside the box is only valid for size 150. For other boxes, the battery is located outside the box.

## SCREEN HR10-ZIP



- ▲ The box integrated in the cavity wall in the front of the window,
- ▲ no perforation of the building shell,
- ▲ fully integrated bottom lath in retracted position,
- ▲ ideal for passive construction and energy-neutral living,
- ▲ high wind resistance (wind class 3).

**ISOTRA** *Quality*





**SCREEN HR10-ZIP (2-01450-0000)**

| Position       | item name                                     | business name | drawing number                       |
|----------------|-----------------------------------------------|---------------|--------------------------------------|
| 1              | Lower Profile - HR10-ZIP                      | ZPH182        | 6-015158-0000                        |
| 1              | Winding Roller HR10-ZIP Al Ø 78x1,25mm - 4,5m | ZPH184        | 6-015160-0000                        |
| 1              | Winding Roller HR10-ZIP Al Ø 55mm - 6m        | ZPH123        | 6-014027-0000                        |
| 1              | Winding Roller HR7/HR8-ZIP Al Ø 67mm - 6m     | ZPH124        | 6-013982-0000                        |
| 1              | Roller tube dia. 85x1, 20 mm - 6 m            | ZPA020        | 6-016860-0000                        |
| 1              | Plastic Bar 6,0 mm PVC                        | ZP0097/0006   | 6-016911-0006                        |
| 1              | Lower Slat Sealing                            | ZPH116        | 6-013974-0000                        |
| 1              | Lower Slat Weight Profile 20x20mm - Fe/Zn     | ZPH202        | 6-015193-0000                        |
| 1              | Plastic Bar 3,0 mm                            | ZP0097/0003   | 6-016911-0003                        |
| 10             | Side Piece - left                             | ZPH175        | 6-015131-0000                        |
| 10             | Side Piece - right                            | ZPH174        | 6-015130-0000                        |
| 10             | BOX                                           | ZPH176        | 6-015152-0000                        |
| 10             | BOX Profile - lower                           | ZPH177        | 6-015153-0000                        |
| 10             | Sliding Module for Side Piece - left - black  | ZPH185        | 6-015161-9004                        |
| 10             | Angular Profile Al - 20 x 20 x 2 mm*          | ZPH195        | 6-015179-0000                        |
| 10             | Sliding Module for Side Piece - right - black | ZPH186        | 6-015162-9004                        |
| 10             | Mounting Base Plate                           | ZPH187        | 6-015163-0000                        |
| 10             | Self-adhesive Profile 1800 mm                 | ZPH197        | 6-015184-0000                        |
| 10             | Cable Holder - self-adhesive                  | ZPH196        | 6-015183-0000                        |
| <b>20 - 22</b> | <b>Fabric Segmented for Screen</b>            |               | <b>see Sampler of Screen fabrics</b> |
| 220            | Lower Slat Ending Safety Lock - RIGHT - BLACK | ZPH191        | 6-015175-9004                        |
| 230            | Lower Slat Ending Safety Lock - LEFT - BLACK  | ZPH192        | 6-015176-9004                        |
| 240            | Lower Slat Ending - LEFT - BLACK              | ZPH193        | 6-015177-9004                        |
| 250            | Lower Slat Ending - RIGHT - BLACK             | ZPH194        | 6-015178-9004                        |
| 320            | Roller Cover Ø 78mm                           | ZPH199        | 6-015188-0000                        |
| 320            | Roller Cover Ø 67mm                           | ZPH139        | 6-013984-0000                        |
| 320            | Roller Cover Ø 55mm                           | ZPH136        | 6-014238-0000                        |
| 320            | Roller Cover Ø 67mm with 4-sided opening 12   | ZPH141        | 6-013983-0000                        |
| 320            | End piece of shaft dia. 85 mm - through       | ZPA008/1      | 3-04003-9004                         |
| 320            | Roller Cover Ø 55mm with 4-sided opening 12   | ZPH138        | 6-014243-0000                        |
| 331            | Insert for shaft end piece - dia. 50 mm       | ZPA017        | 3-03486-9004                         |
| 331            | Roller Cover Attachment diameter 78mm         | ZPH200        | 6-015189-0000                        |
| 340            | Roller Cover Peg - 12mm Fe/Zn                 | ZPH129        | 6-013985-0000                        |
| <b>350</b>     | <b>Motors (SOMFY, BECKER) SCREEN</b>          |               | <b>see Motors, page 105</b>          |
| 350            | Carrier LT60 HI - PRO Ø 78mm                  | MRH 119       | 6-013868-0000                        |
| 350            | Carrier LT50 HI - Ø 65mm                      | ZPH160        | 6-013980-0000                        |
| 350            | Carrier LT50 HI - Ø 85mm                      | ZPH161        | 6-014326-0000                        |
| 350            | Carrier LS40 - Ø 50mm                         | ZPH163        | 6-014328-0000                        |
| <b>360</b>     | <b>Guiding Line- Slat HR10-ZIP - left</b>     |               | <b>2-01452-PU11L</b>                 |
| 360            | Click-profile for VL - HR10-ZIP**             | ZPH180        | 6-015156-0000                        |
| 360            | Ending Piece for Click Profile HR10-ZIP       | ZPH201        | 6-015190-0000                        |
| 360            | Guiding Slat Ending 1120 - HR10-ZIP - LEFT    | ZPH188        | 6-015171-0000                        |
| 360            | Guding Slat Profile 1040 for HR10-ZIP         | ZPH206        | 6-015203-0000                        |
| 360            | Guding Slat Profile 1040 front part           | ZPH207        | 6-015204-0000                        |
| 360            | Ending Piece VL 1040 - HR10-ZIP - LEFT/ RIGHT | ZPH208        | 6-015205-0000                        |
| <b>370</b>     | <b>Guiding Line - Slat HR10-ZIP - right</b>   |               | <b>2-01452-PU11P</b>                 |
| 370            | Guiding Slat Profile 1120 Cap                 | ZPH178        | 6-015154-0000                        |
| 370            | Box Cover Clamp - black                       | ZPH179        | 6-015155-9004                        |
| 370            | Guiding Slat Profile 1120 Cap                 | ZPH181        | 6-015157-0000                        |
| 370            | Guiding Slat Spring Zip                       | ZPH147/1      | 7-303662-0000                        |
| 370            | Guiding Slat for Zip                          | ZPH145        | 6-014155-0000                        |
| 370            | Ending Piece VL 1120 - right                  | ZPH189        | 6-015172-0000                        |
| 370            | Profile - VL for Zip Holder - black           | ZPH198        | 6-015185-0000                        |

\*For guide rails type 1120 and 1040, the BOX is supplied with no square.

\*\*For guide rails type 1120 with clip-profile, and 1040 with clip-profile, the BOX is supplied with square.

**MOTORS SCREEN HR10-ZIP (2-01450-0000)**

| Position | item name                         | business name | drawing number |
|----------|-----------------------------------|---------------|----------------|
| 101      | Motor ALTUS 50 RTS 10/17          | MR 091/10     | 6-011170-0010  |
| 102      | Motor ALTUS 50 RTS 15/17          | MR 091/15     | 6-011170-0015  |
| 103      | Motor ALTUS 50 RTS 20/17          | MR 091/20     | 6-011170-0020  |
| 201      | Motor Sunea 50 Screen io 10/17    | ZP0085        | 6-012559-1017  |
| 202      | Motor Sunea 50 Screen io 15/17    | ZP0086        | 6-012559-1517  |
| 203      | Motor Sunea 50 Screen io 20/17    | ZP0092/20     | 6-012559-2017  |
| 301      | Motor MAESTRIA +50 IO 10/17 VVF5M | ZP0085/1      | 6-012538-1017  |
| 302      | Motor MAESTRIA +50 IO 15/17 VVF5M | ZP0086/1      | 6-012538-1517  |
| 303      | Motor MAESTRIA +50 IO 25/17 VVF5M | ZP0087/1      | 6-012538-2517  |
| 401      | Motor MAESTRIA +50 WT 10/17 VVF3M | ZP0093/10     | 6-015258-1017  |
| 402      | Motor MAESTRIA +50 WT 15/17 VVF3M | ZP0093/15     | 6-015258-1517  |
| 403      | Motor MAESTRIA +50 WT 25/17 VVF3M | ZP0093/25     | 6-015258-2517  |
| 501      | Motor LS 40 9/16                  | PR0125        | 6-002624-0009  |
| 601      | Motor Sunea 40 Screen io 09/16 5m | ZP0091/16     | 6-014483-0009  |

**Motors (Becker) Screen HR10-ZIP (6-015258 / 6-012538 / 6-002624 / 6-014483)**

| Position | item name                           | business name  | drawing number |
|----------|-------------------------------------|----------------|----------------|
| 510      | Motor BECKER 50 E 08/17             | X.2010/1301590 | 6-017861-0008  |
| 510      | Motor BECKER 50 E 12/17             | X.2010/1301600 | 6-017861-0012  |
| 510      | Motor BECKER 50 E 20/17             | X.2010/1301450 | 6-017861-0020  |
| 500      | Motor BECKER 50 Screen C 08/17 PLUS | X.2010/1302170 | 6-018761-0008  |
| 500      | Motor BECKER 50 Screen C 12/17 PLUS | X.2010/1302180 | 6-018761-0012  |
| 500      | Motor BECKER 50 Screen C 20/17 PLUS | X.2020/1301860 | 6-018761-0020  |

\*Note: E=electronic motor / C=radio motor

**Screen HR10-ZIP**

| position | item name                                                     | business name | drawing number |
|----------|---------------------------------------------------------------|---------------|----------------|
| 600      | Motor ISOTRA BASIC, 10Nm/17,with integrated receiver, SC zip  | X.AM45 10/17S | 6-019173-0010  |
| 600      | Motor ISOTRA BASIC, 15Nm/17,with integrated receiver, SC zip  | X.AM45 15/17S | 6-019173-0015  |
| 600      | Motor ISOTRA BASIC, 20Nm/17, with integrated receiver, SC zip | X.AM45 20/17S | 6-019173-0020  |

**Motors (Geiger) Screen HR10-ZIP (2-00530-0002)**

| position | item name                                              | business name | drawing number |
|----------|--------------------------------------------------------|---------------|----------------|
| 10       | Motor Geiger Solid Line ZIP AIR 6/16                   | PR0790/06     | 6-015903-0006  |
| 11       | Motor Geiger Solid Line ZIP AIR 10/16                  | PR0790/10     | 6-015903-0010  |
| 12       | Motor Geiger Solid Line ZIP AIR 20/16                  | PR0790/20     | 6-015903-0020  |
| 70       | Carrier SOLID LINE AIR - dia. 95                       | ZPA015/95     | 6-015904-0095  |
| 70       | Carrier SOLID LINE AIR - dia. 78                       | ZPA015/78     | 6-015904-0078  |
| 70       | Carrier SOLID LINE AIR - dia. 85                       | ZPA015/85     | 6-015904-0085  |
| 200      | Cable gromment RUBBER dia.7                            | ZPH150        | 6-014339-0000  |
| 320      | Screw 4,8x19 DIN 7982 C-H A2 countersunk, Philips head |               | 6-013928-0000  |
| 330      | Cable collar 300x4,8- BLACK                            | ZPH168        | 6-014438-0000  |
| 340      | Screw 4,8x19 DIN 7982 C-H A2 countersunk, Philips head |               | 6-014439-0000  |
| 350      | Bolt M6x10 DIN 965-H, A2, countersunk, Philips head    |               | 6-014497-0000  |
| 400      | Bearing plate - flat                                   | ZPA005        | 3-03484-9004   |
| 410      | Bearing plate with clip                                | ZPA006        | 3-03485-9004   |

## Weight

For an integral screen with a width of 3.0 metres and an height of 1.5 metres, the total weight is approx. 34.5 kg.

The weight of the box base on Ø 78 mm aluminium fabric roll, motor and Satiné fabric:

| BOX    |        |
|--------|--------|
| LENGTH | WEIGHT |
| 1,0 m  | ±13 kg |
| 1,5 m  | ±16 kg |
| 2,0 m  | ±20 kg |
| 2,5 m  | ±23 kg |
| 3,0 m  | ±27 kg |
| 3,5 m  | ±30 kg |
| 4,0 m  | ±34 kg |
| 4,5 m  | ±37 kg |

The weight of two standard 1120 lateral guides:

| 2 GUIDE RAILS |          |
|---------------|----------|
| LENGTH        | WEIGHT   |
| 0,5 m         | ±2,5 kg  |
| 1,0 m         | ±5 kg    |
| 1,5 m         | ±7,5 kg  |
| 2,0 m         | ±10 kg   |
| 2,5 m         | ±12,5 kg |
| 3,0 m         | ±15 kg   |
| 3,5 m         | ±17,5 kg |
| 4,0 m         | ±20 kg   |
| 4,5 m         | ±22,5 kg |

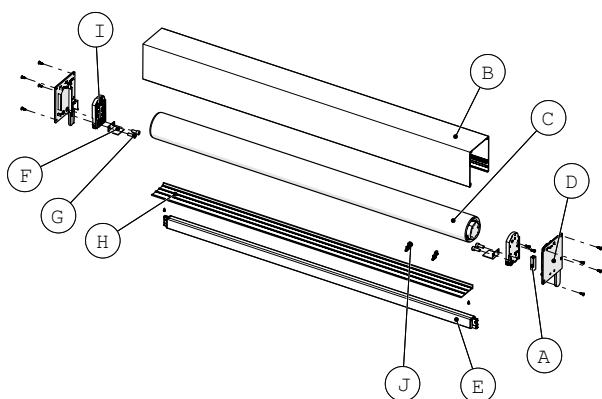
## Technical Specification

### SCREEN BOX (2-01451-PU11)

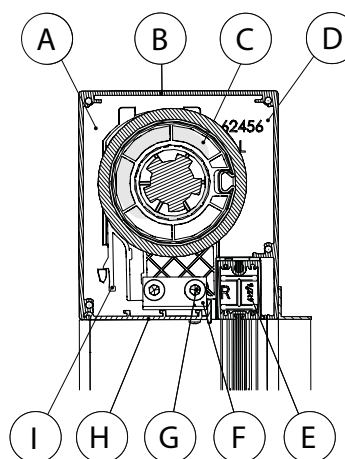
The outside frame of the screen box is made up of 2 parts of extruded aluminium: the U-shaped box profile (B) and the hinged base plate (H). The sides are sealed with side consoles (D), in which a removable fabric roll (C) can be placed using the insert modules (I). The base plate touchers (F), together with the insert modules, are secured to the side consoles using bolts (G). Then the sides of the base plate can be bolted to these touchers.

There is a cable duct (A) on the side console and a cable clamp (J) on the base plate to keep the motor cable in place.

There is one type of box available for the HR10-ZIP integral screen. The dimensions of the box cross-section are 122 mm x 140 mm.



- (A) Cable duct
- (B) Box profile
- (C) Fabric roll
- (D) Side console
- (E) Bottom lath
- (F) Base plate toucher



- (G) Bolt M8 x 18
- (H) Base plate
- (I) Insert module
- (J) Cable clamp



Make sure that the base plate of the screen box and the hinged section of the guide rail (see page 8 under 8. guide rails) can always be opened, so that the mechanical parts inside are accessible at all times. If this rule is not respected, ISOTRA cannot be held responsible for the cost of demolition work or any paint work or wallpapering!

**Note:** If the box is installed the other way round, it should be possible to open the window inwards. In the event of a technical fault when the shutter is down, you must access the box along the inside.

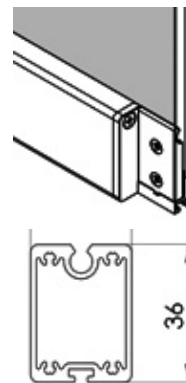
**Bottom rail** (6-015158-0000)

The bottom rail consists of a two-piece, left and right sliding block and an extruded aluminium profile with a powder-coated finish.

The profile has:

- A groove for screw-free attachment of the fabric using a canvas rod of Ø 3 mm
- A chamber for a strengthening strip
- A slot at the bottom to insert a rubber stopper (there is also the option to select a brush strip)

The two-piece sliding block ensures the fabric is correctly tightened.

**Fabric roll**

Depending on the width and the type of fabric, either the Ø 55 mm extruded aluminium roll or the Ø 78 mm roll made of galvanised steel (see table).

The fabric rolls have a groove for attaching the fabric, using a canvas rod of Ø 4 mm for the Ø 55 mm roll and a canvas rod of Ø 6 mm for the Ø 78 mm roll.

The fabric rolls have a groove for attaching the fabric, using a canvas rod of Ø 4 mm for the Ø 55 mm roll and a canvas rod of Ø 6 mm for the Ø 78 mm roll.

| Fabric roll                               | Ø55 mm*       | Ø78 mm           |
|-------------------------------------------|---------------|------------------|
|                                           | 6-014027-0000 | 6-015160-0000    |
| Material                                  | aluminium     | galvanized steel |
| Rod                                       | Ø4 mm         | Ø6 mm grooved    |
| Total width of screen<br><b>Soltis 92</b> | 655–815 mm    | 815–4500 mm      |
| <b>Satiné</b>                             | 655–815 mm    | 815–4500 mm      |
| <b>Blackout</b>                           | 655–815 mm    | 815–4500 mm      |

\*As standard there is delivered the motor LS40, Sunea 40 io or Becker ø 40. For RTS control it is necessary to order IS40 motor with shutter in the wall.

**Side caps** (6-015130-0000, 6-015131-0000)

The side caps consist of two separate parts:

- A fixed side console (left, right)
- An insert module (left, right)

**Side cap left/right** (6-015130-0000/6-015131-0000)

Dimension: 122 x 140 mm

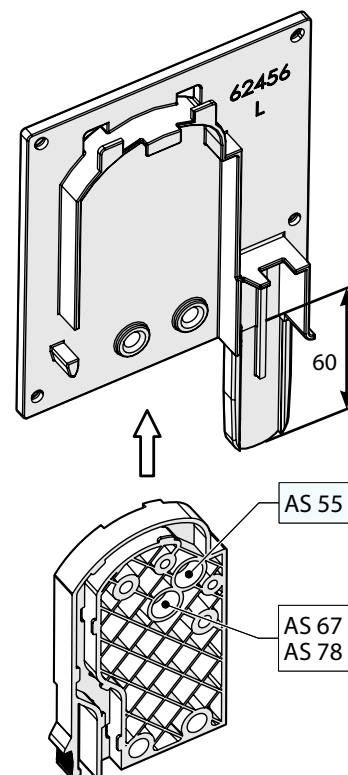
The aluminium side consoles have an integral pivot that fits in the base section of the guide rail. On the inside there are vertical ridges, one of which the bottom lath fits into and one for sliding the insert module into. The insert module can click securely into the lip.

**Insert module for side cap left/right** (6-015161-9004/6-015162-9004)

Dimension: 66,5 x 115 mm

The insert modules are made of polyamide reinforced with glass fibre. They have a number of holes for securing the motor on the motor side, or a hole for a fabric roll on the opposite side. The corresponding holes must be used for each fabric roll diameter. By pressing the click stub inwards, the insert module is released from the side console.

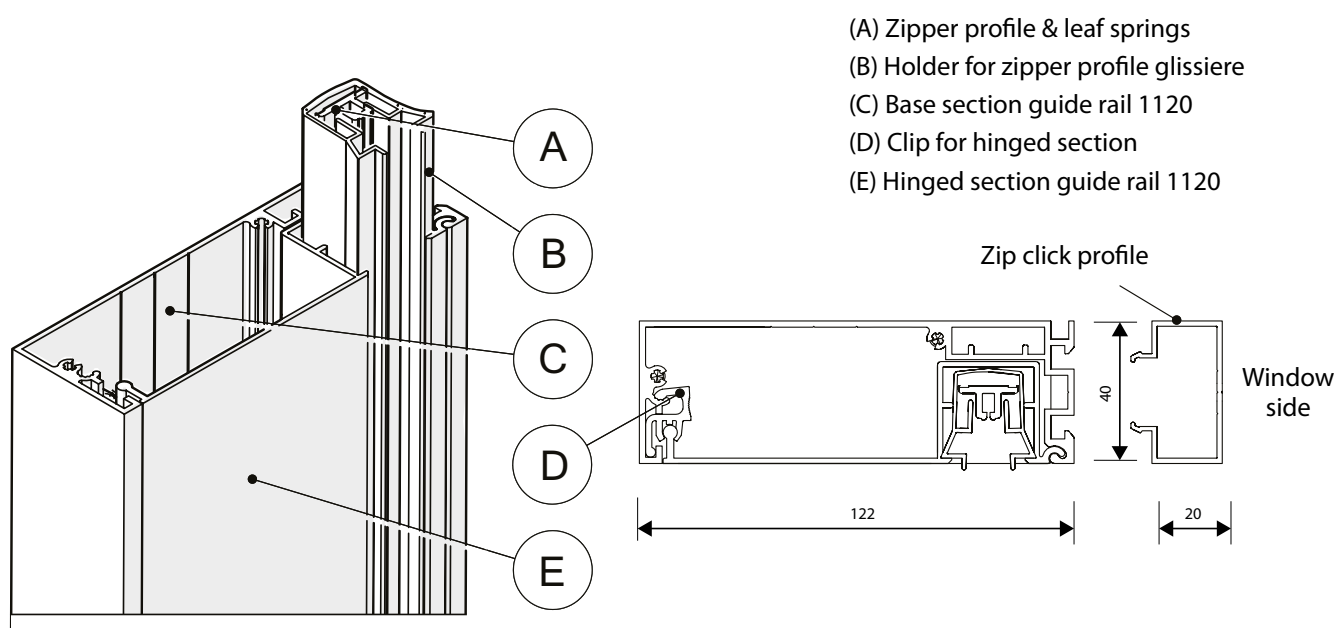
There are two holes in the bottom to secure the base plate toucher to the side consoles.





## Guide rails

### Guide rail (6-015157)



The complete wide 1120 guide rails are made up of a base section (C), a hinged section (E) and a holder (B) with zipper profile (A), and at the bottom of the base section of each guide rail an aluminium end cap. On the window-side, the hinged section hinges into the base section of the guide rail and on the outside the hinged section clicks into the plastic clamps (D) that can be found on the base section (see figure). The holder and the zipper profile can only be inserted when the hinged section is closed. This is because the holder and the zipper profile are 35 mm longer than the guide rail and are first placed in the box and then further in the recess of the hinged section.

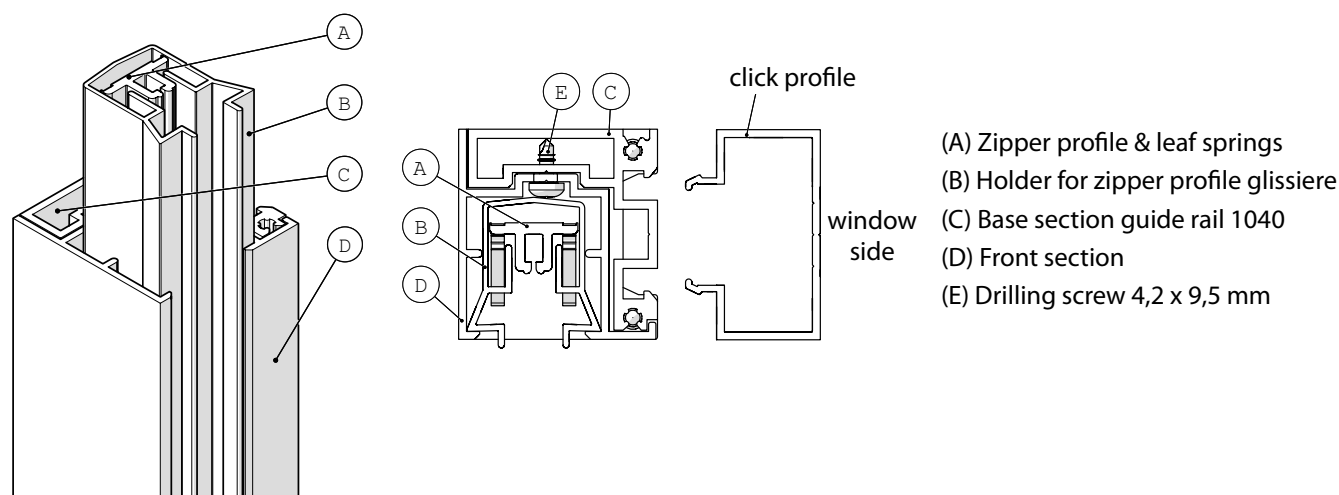
The base and hinged section are extruded aluminium profiles, both of which have a layer of powder coating. The holder and the zipper profile are both made of plastic.

If you want to fit an insect screen between the screen and the window, then adjustment click profiles need to be placed on the box and the guide rail.

If you want to fit an insect screen between the screen and the window, then adjustment click profiles need to be placed on the box and the guide rail.

If selecting option of click profile, then the clip profiles are secured to the bottom with an end cap, using these screws. The basic elements can then be clipped onto it.

The screen box is then placed on the guide rails, with the pivots in the guide rails.

**Guide rail 1040 (6-015203)**

The complete wide 1040 guide rails are made up of a base section (C), a front section (D) and a holder (B) with zipper profile (A), and at the bottom of the base section of each guide rail an aluminium end cap. The front section is fixed into the base section of the guide rail by the drilling screw (see figure). The holder and the zipper profile can only be inserted when the front section is fixed. This is because the holder and the zipper profile are 35 mm longer than the guide rail.

The base and front section are extruded aluminium profiles, both of which have a layer of powder coating. The holder and the zipper profile are both made of plastic.

If you want to fit an insect screen between the screen and the window, then adjustment click profiles need to be placed on the box and the guide rail.

To attach the HR10-ZIP, first the basic elements must be secured to the window frame with the necessary accuracy (see installation instructions!). A number of screws are supplied with each guide rail.

If selecting option of click profile, then the clip profiles are secured to the bottom with an end cap, using these screws. The basic elements can then be clipped onto it.

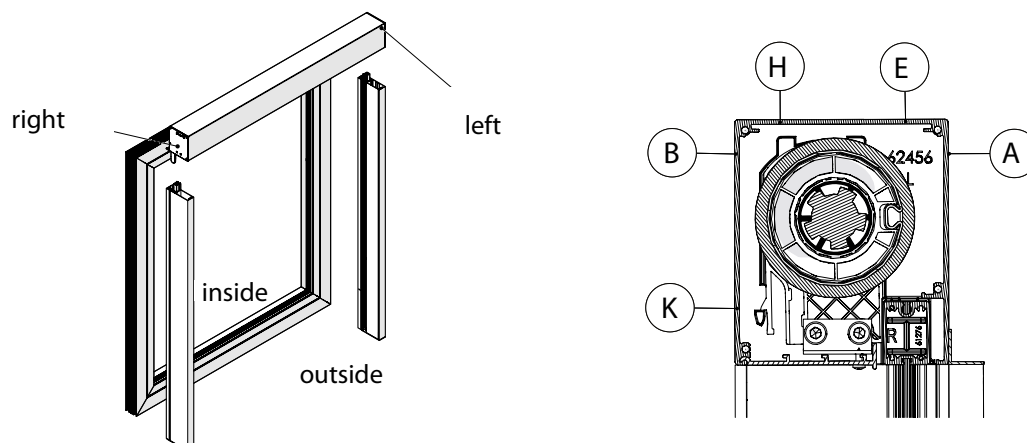
The screen box is then placed on the guide rails, with the pivots in the guide rails.

**Control**

**The HR10-ZIP integral screen is always viewed along the INSIDE (see figure).**

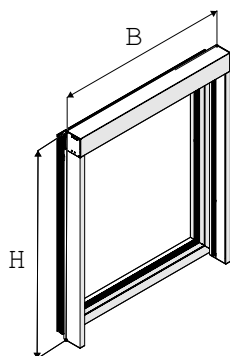
The HR10-ZIP screen is always electrically operated. The operating side can be either on the left or on the right. On the selected operating side there is the choice to have the cable run along the lateral guide or through a hole to be drilled in the top or back of the box profile (see figure).

The motors have an execution time of approx. 4 minutes, after that they go into thermal security mode (see motor manual).



## SCREEN HR10-ZIP

### Measuring



The dimensions to be specified are the width B and the height H. The finished width B is equal to the width of the box, which also corresponds to the distance between the outer sides of the left and right guide rails. This width is not always the width of the window, but depends on the window finish (see figure).

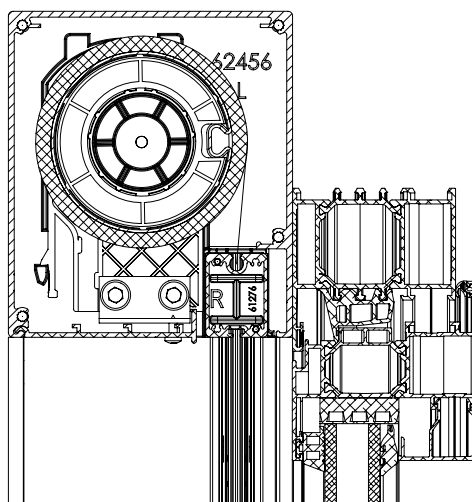
The finished height H is equal to the height including the box height and the end caps of the guide rails.

Both dimensions are expressed in mm.

More information in the separate document **Measurement and assembly instructions**.

### Assembly

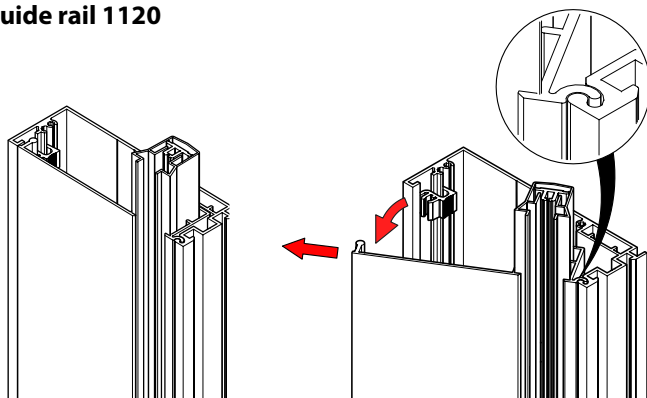
The actual assembly is in 4 steps.



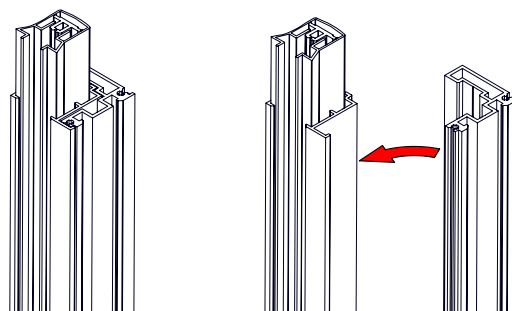
#### 1. step

The guide rails are supplied already assembled. The cover must be removed from the base section before it is fitted on to the window. Zipper guide and sleeve can remain in the cover.

#### Guide rail 1120

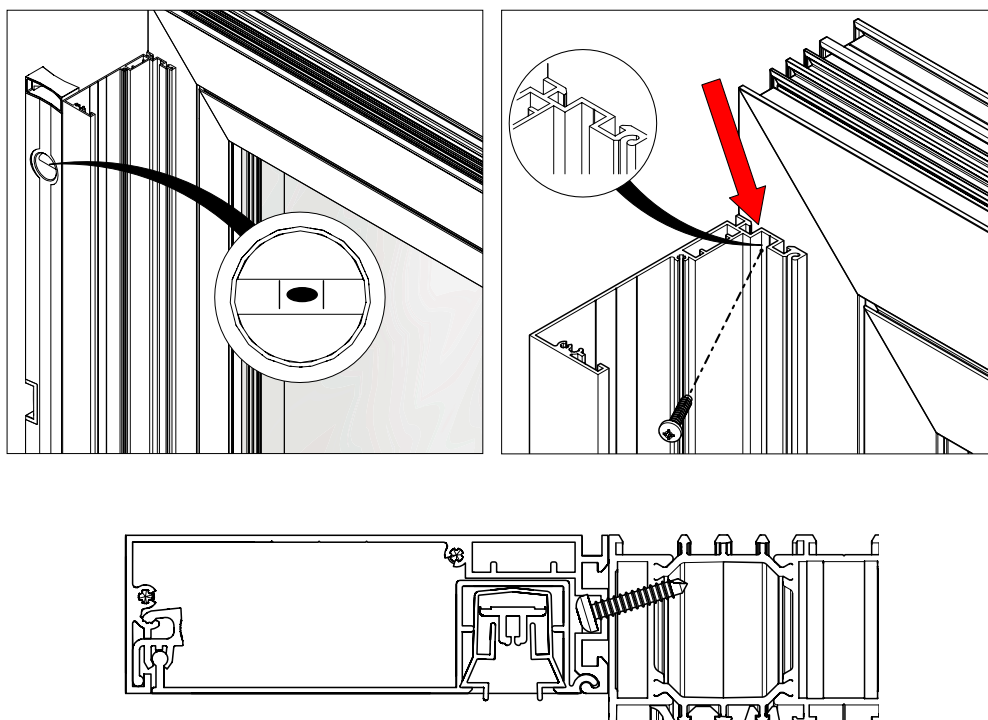
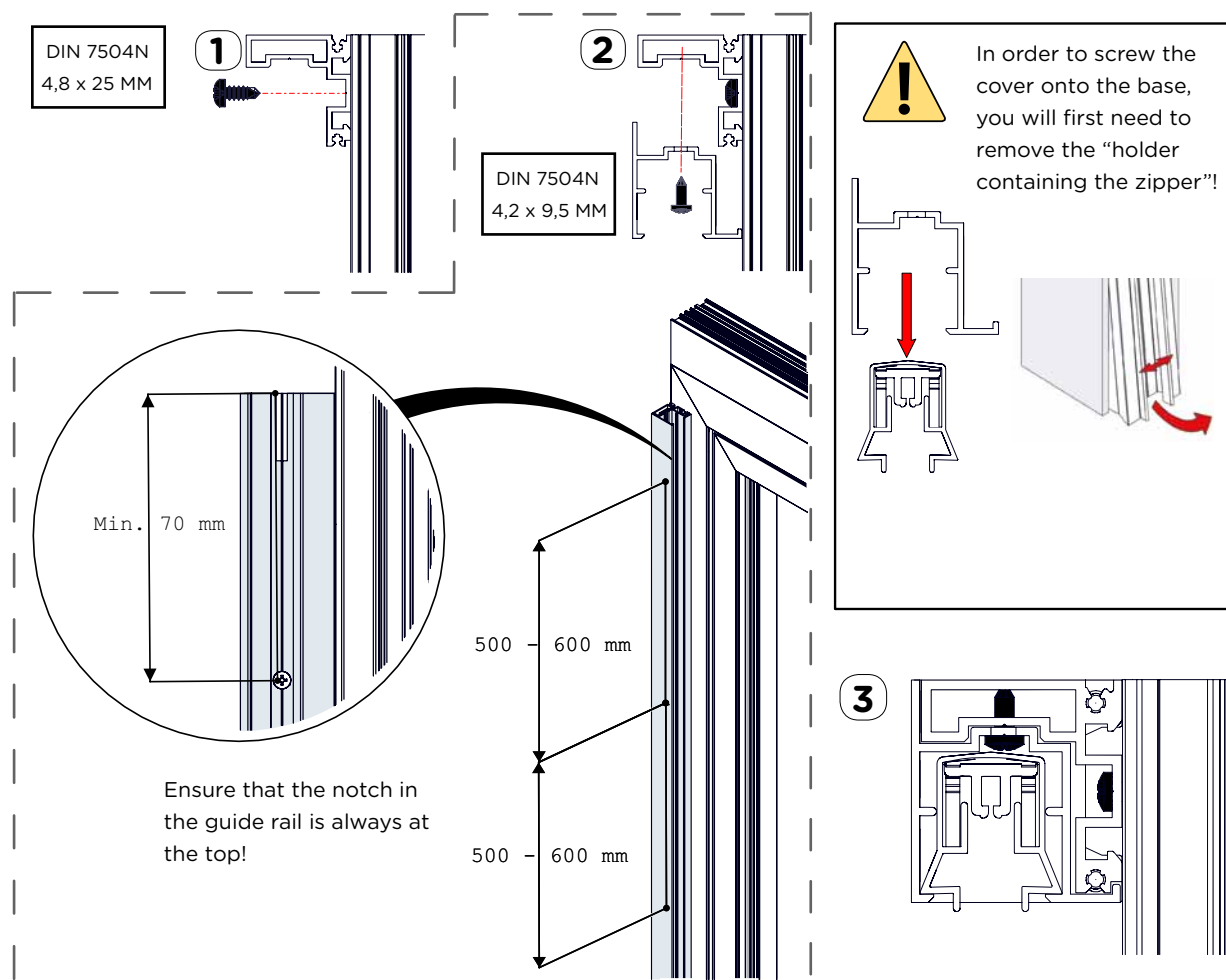


#### Guide rail 1040

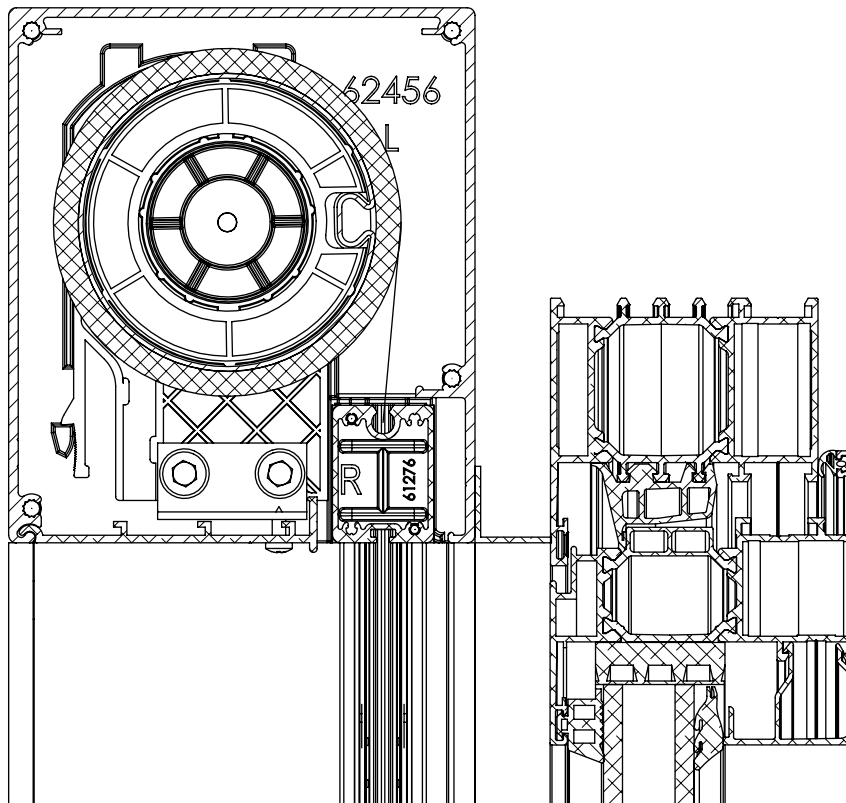


**2. step**

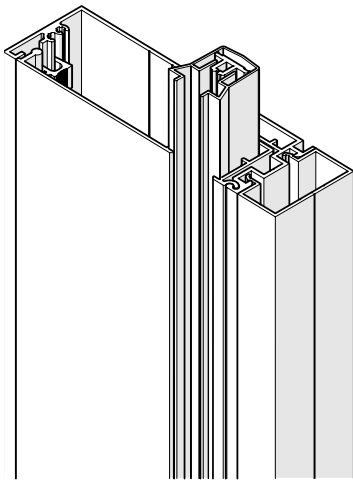
Mount the base of the guide rail against the window with the screws supplied.

**Guide rail 1120****Guide rail 1040 = surface mounted guide rail 1120**

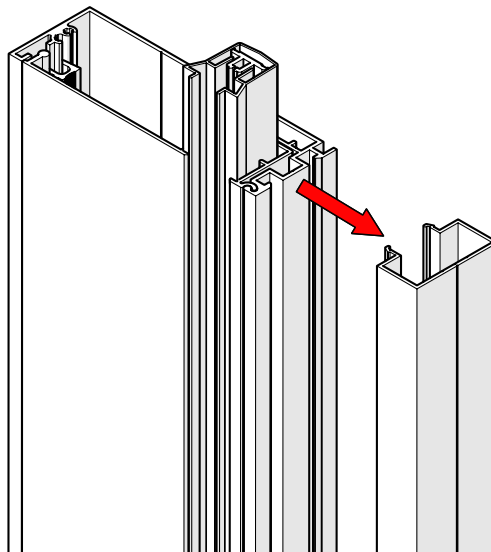
## Guide rail 1120 - click profile



- The guide rails are supplied already assembled. The click profile must be removed from the base section.

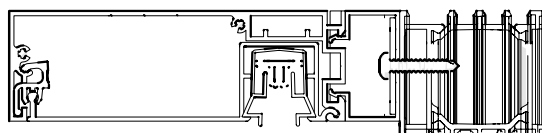
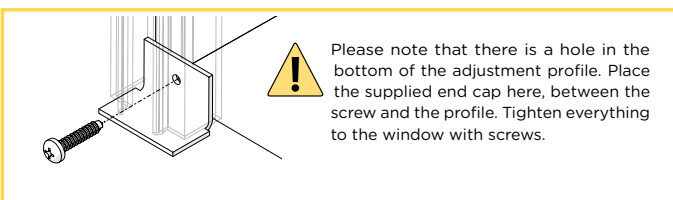
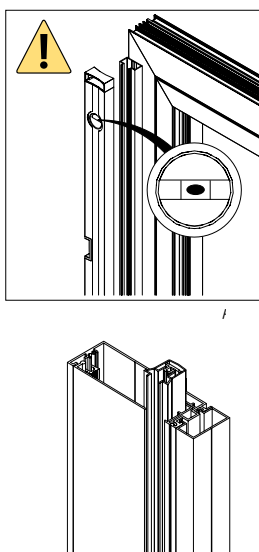
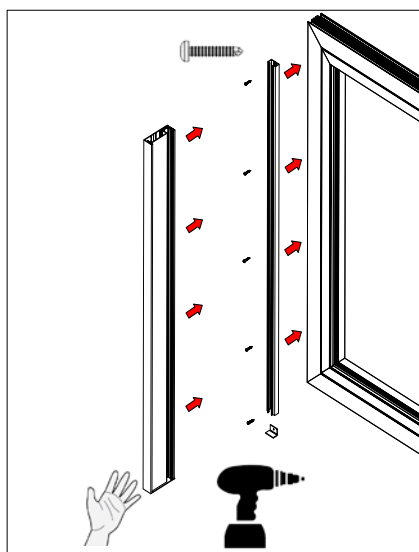


With this option (adjustment profile) the click/adjustment profile of the base must be detached before fitting it to the window.



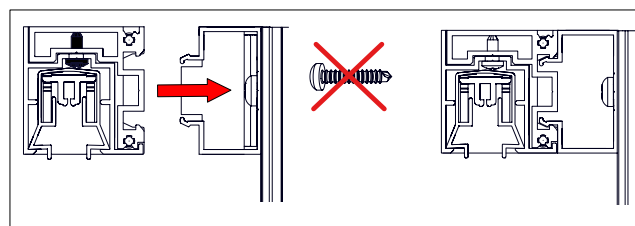
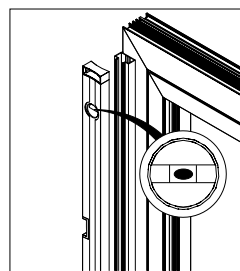
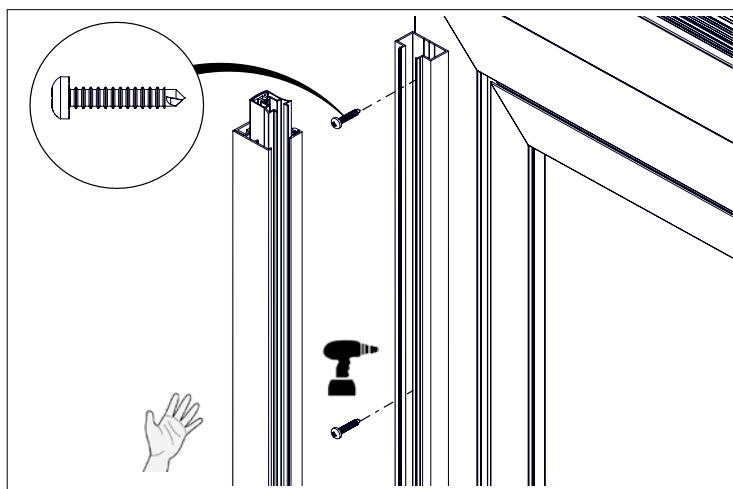


Please note that only the click profile should be screwed on to the window. The base is then fitted to the adjustment profile using a click connection.

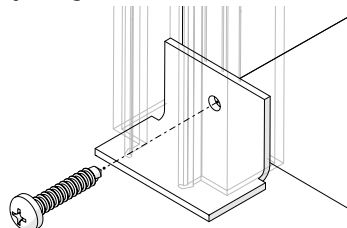


### Guide rail 1040 – click profile

Use the same surface mounting of the guide rail on the window as for guide rail 1120. This guide rail is supplied with pre-assembled mounting. Clip the guide rail onto the adjustment profile (after it has been fixed to the window)!

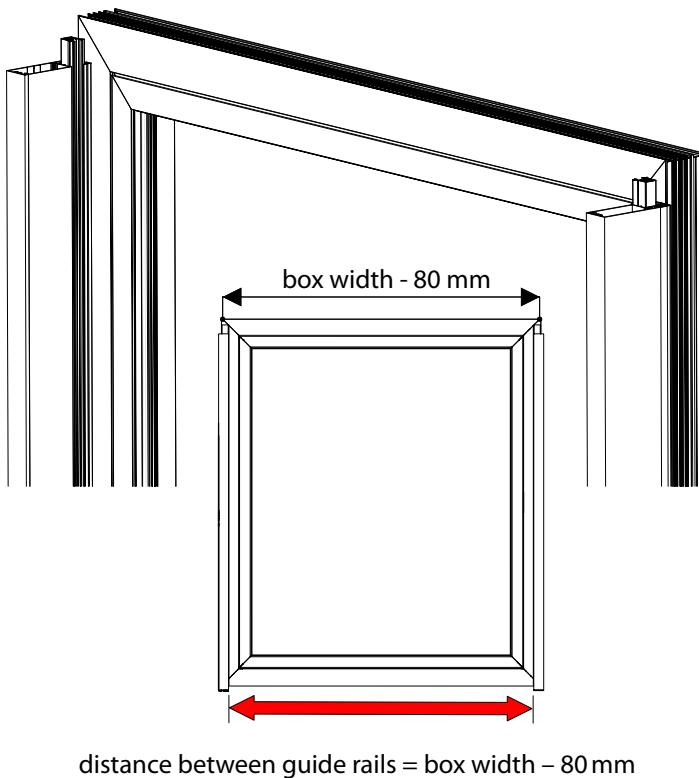


Please note that a small hole has been applied to the underside of the adjustment profile. Position the supplied end cap here, between the screw and the profile. Tighten everything to the window with screws.



### 3. step

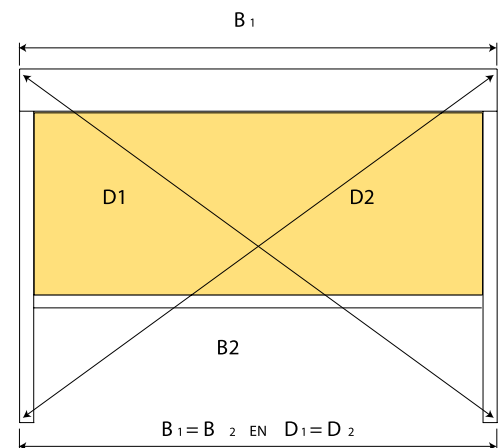
Follow the same procedure to install the other guide rail.



Make sure that the screens are always dead level and installed perfectly square. This can be checked and corrected in one way only.

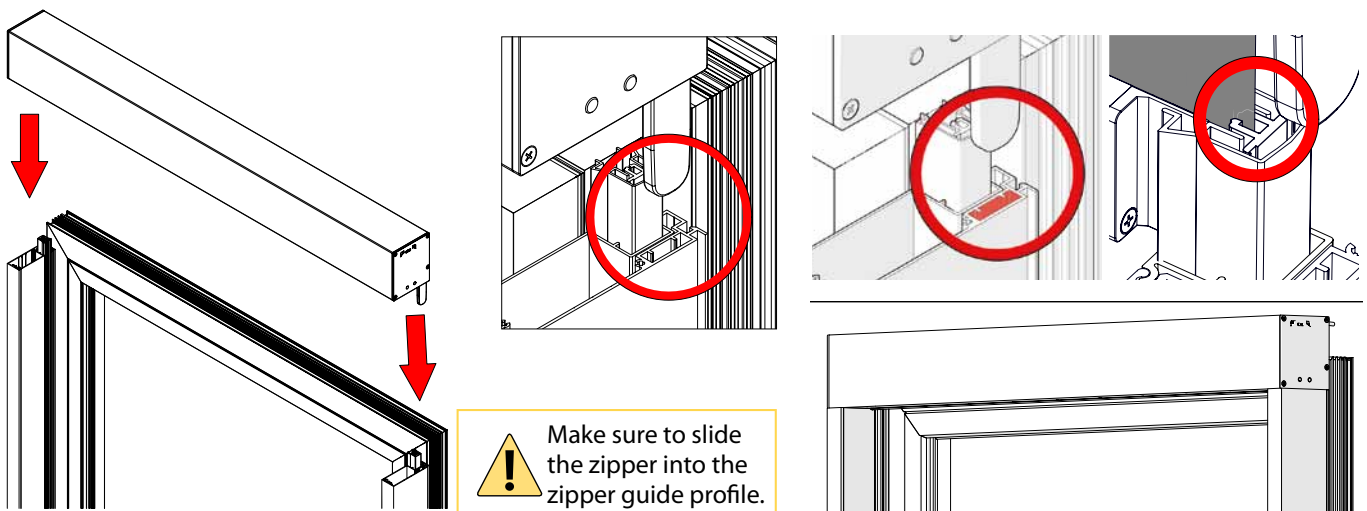
1. Check first whether the whole assembly is mounted dead level.
2. Check whether the guide rails run parallel and perpendicular to the box. Measure the distance between the guide rails exactly and to the millimetre. Begin directly under the box. Deviations of more than 2 mm can lead to hitches with the screen and/or bottom lath and the fabric may not hang sufficiently taut.
3. Next measure accurately across the diagonals, down to the exact millimetre.

If the box and the guide rails are not correctly fitted, then the bottom lath may roll up askew into the box and the screen cloth will have diagonal or crosswise creases.



### 4. step

After both guide rails have been mounted on the window, lower the entire box on to the guide rails. Make sure the pins of the side console fit into the guide rail and that the zipper is positioned in the zipper guide.



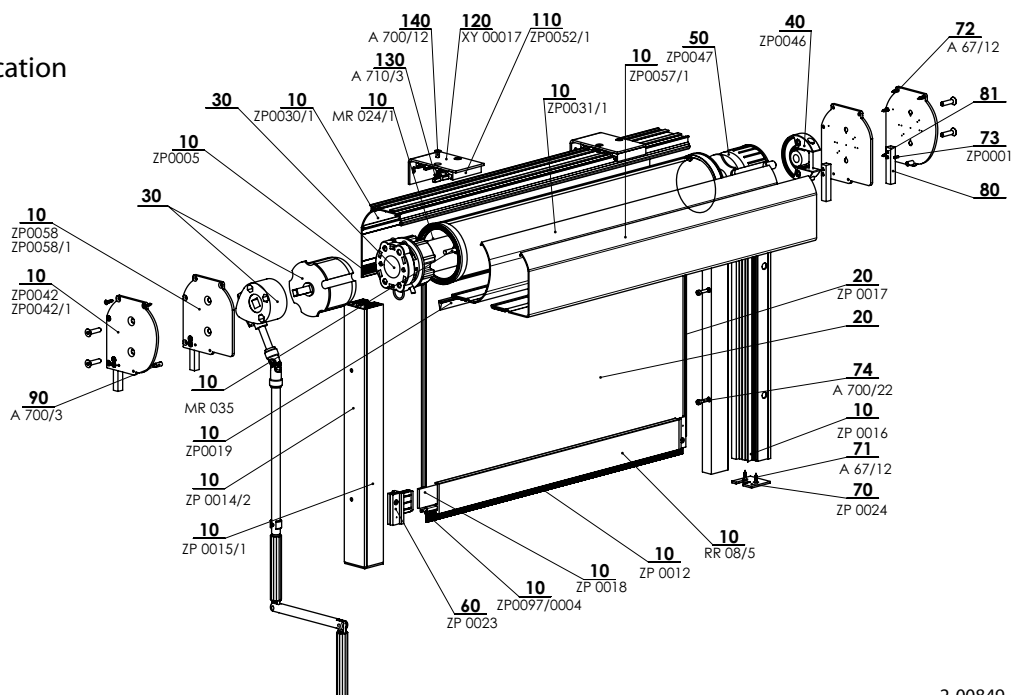




- ▲ Decorative and modern building exterior element
- ▲ Minimal penetration of light thanks to absolute fabric tension
- ▲ high wind resistance (wind class 3),
- ▲ heat regulating effect
- ▲ insect protection in closed position
- ▲ frame colour as per the RAL chart (except of plastic parts)

## SCREEN ZIP

### Basic Product Specification



### Control

Used for lifting and lowering of screen blinds.

**Motor** - Optional control using the sun / wind sensor or by a remote control or switch.

**Handle** - the control rod mechanism is led into the interior at an angle from 45 ° to 90 ° using a wall bushing and a hexagonal rod. (Color: gray / eloxal coating)

2-00849-0010-C

### Specification

|                        | Head Rail                                                                    |             |                | Bottom Rail                                                                                                         | Side Guidance Guide Rail | Installation                                                                                        |
|------------------------|------------------------------------------------------------------------------|-------------|----------------|---------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------|
|                        | Box                                                                          | Box         | Winding roller |                                                                                                                     |                          |                                                                                                     |
| <b>Commercial Name</b> | C 105                                                                        | CT 105      | MR 024/1       | FZ 47                                                                                                               | GS40                     | into the ceiling<br>(into the window opening<br>on the wall<br>(in front of the window<br>opening)) |
| <b>Dimension (mm)</b>  | 103x116,5                                                                    | 104,5x116,5 | Ø 78 mm        | 20x47,4                                                                                                             | 40x42,2                  |                                                                                                     |
| <b>Material</b>        | Al                                                                           | Al          | Fe             | Al                                                                                                                  | Al                       |                                                                                                     |
|                        |                                                                              |             |                |                                                                                                                     |                          |                                                                                                     |
| <b>Colour</b>          | Standard:<br>RAL 9006 light silver<br>RAL 9007 dark silver<br>RAL 9010 white |             |                | RAL 7016 anthracite grey<br>RAL 7016S anthracite grey structure<br>RAL 8014 brown<br>Other RAL colors upon request* |                          |                                                                                                     |

\*except of plastic parts, maximum width 4000 mm

We do not make atypical designs.

### Standard Dimensions

| Version | Width (mm) |      | Height (mm) |      | Guaranteed area (m²) |
|---------|------------|------|-------------|------|----------------------|
|         | min        | max  | min         | max  |                      |
| motor   | 800        | 4500 | 500         | 3000 | 13,5                 |
| handle  | 500        | 4500 | 500         | 3000 | 13,5                 |

### 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).

### Common phenomena of technical fabrics

The fabric may curl around the welds or in the middle of the fabric, it is the so-called tree effect. This phenomenon is common because different forces act on the fabric during use. Another phenomenon may be visible bruises on the fabric caused by the roller. These disappear at higher temperatures when the fabric levels.

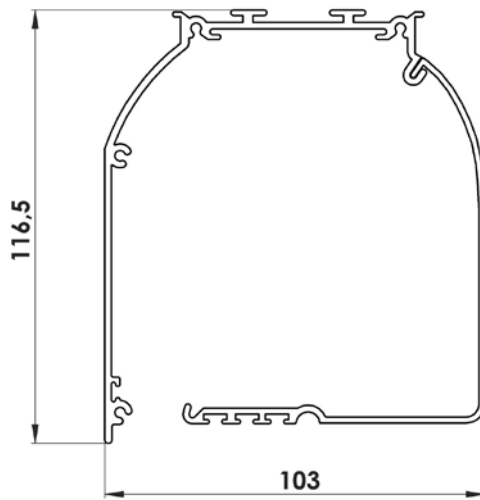
## SCREEN ZIP (2-00849-0010)

| position  | item name                                   | business name | drawing number                       |
|-----------|---------------------------------------------|---------------|--------------------------------------|
| 10        | Bottom rail Al - FZ 472                     | RR 08/5       | 7-302966-0000                        |
| 10        | Weight steel 4x30 mm FeZn                   | ZP0018        | 3-01381-PU27                         |
| 10        | Black brush w.4.8 x h. 7mm                  | ZP0005        | 6-009219-0000                        |
| 10        | Plastic rod 4,0 mm PVC                      | ZP0097/0004   | 6-016911-0004                        |
| 10        | Al cover CT105 upper                        | ZP0030/1      | 7-302968-0000                        |
| 10        | Al cover CT105 bottom                       | ZP0031/1      | 7-302969-0000                        |
| 10        | Al cover CT105 square raw                   | ZP0057/1      | 7-302971-0000                        |
| 10        | Side cover CT105 - round, elox              | ZP0042        | 6-009194-0002                        |
| 10        | Side cover round - couple                   | ZP0042/1      | 2-01007-0000                         |
| 10        | Side cover square, elox                     | ZP0058        | 6-011456-0000                        |
| 10        | Side cove square - couple                   | ZP0058/1      | 2-01008-0000                         |
| 10        | Black brush w.4.8 x h. 12mm                 | ZP0012        | 6-009148-0000                        |
| 10        | PVC sealing 5,5 x 12 mm                     | ZP0019        | 6-008716-0000                        |
| 10        | Winding roller for awnings dia. 78 mm - 6 m | MR 024/1      | 6-011084-0078                        |
| 10        | Plastic bar PVC 6,0 mm                      | ZP0097/0006   | 6-016911-0006                        |
| 10        | Black insertion ZIP for GS 40               | ZP0016        | 6-008707-0001                        |
| 10        | Guiding channel Al - GS 40                  | ZP0014/2      | 7-303770-0000                        |
| 10        | Guiding channel - cap Al - GS 40            | ZP0015/1      | 7-302972-0000                        |
| <b>20</b> | <b>Screen fabric</b>                        |               | <b>see Sampler of Screen fabrics</b> |
| 20        | ZIPPER (double-edged)                       | ZP0017        | 6-008709-0000                        |
| <b>30</b> | <b>Motor (SOMFY, BECKER) screen</b>         |               | <b>see Control</b>                   |
| <b>30</b> | <b>Transmission + handle for screen</b>     |               | <b>see Control</b>                   |
| 40        | Set for motor: AL holder with case          | ZP0046        | 6-009209-0000                        |
| 50        | Roller cover dia. 78 PVC - teleskopic       | ZP0047        | 6-009210-0078                        |
| 60        | Bottom rail end cup FZ 47 - set             | ZP0023        | 6-008949-0503                        |
| 70        | Guide channel end cup                       | ZP0024/1      | 7-303027-0000                        |
| 71,72     | Screw 3,5x16 DIN 7997                       | A 67/12       | 6-009093-0000                        |
| 73        | Spring pin 3x12 DIN 7346                    | ZP0001        | 6-009807-0000                        |
| 74        | Allen screw M4x16 DIN 912                   | A 700/22      | 6-012632-0000                        |
| 80        | Guide channel holder - brass                |               | 7-303793-0000                        |
| 81        | Stainless screw M4x16 DIN 965-H             |               | 6-014750-0000                        |
| 90        | Cover locking screw M4                      | A 700/3       | 7-303030-0000                        |
| 110       | Profile - Fixed holder for Screen           | ZP0052/1      | 3-03058-PU11                         |
| 120       | Bent angle Fe 100/40                        | XY 00017      | 3-02233-PU22                         |
| 130       | Nut M5 DIN 6923                             | A 710/3       | 6-011882-0000                        |
| 140       | Screw M5x10 Zn DIN 965-H                    | A 700/12      | 6-003186-0000                        |

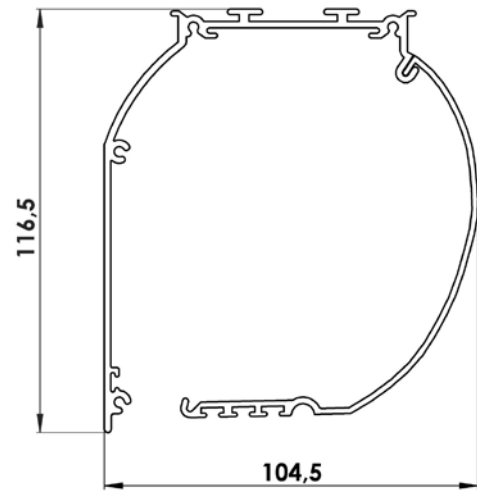
# SCREEN ZIP

## Technical Specification

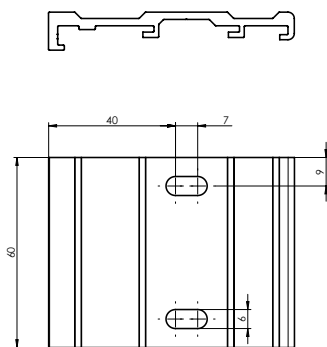
**Head rail C 105**



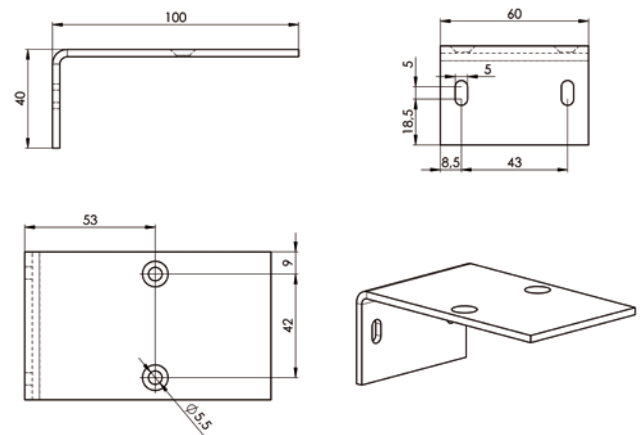
**Head rail CT 105**



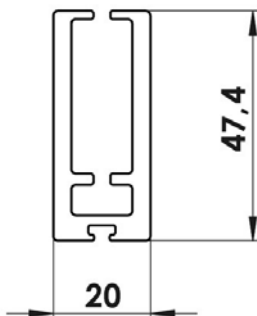
**Head rail hanger**  
(3-03058-PU11)



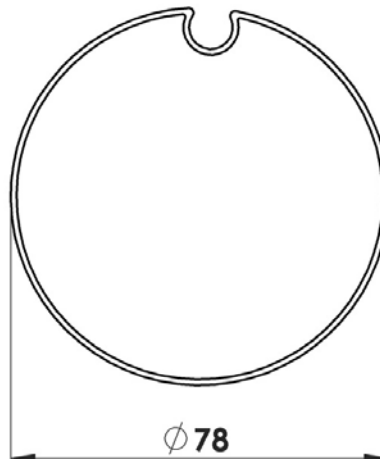
**Square L**  
(RO-018, 7-302233)



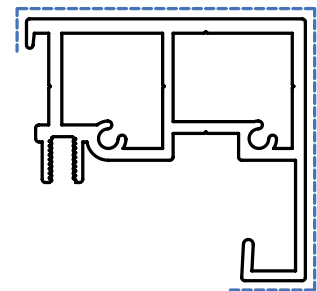
**Bottom rail FZ 47**  
(RR 08/5, 6-008623)



**Winding roller**  
(6-011084)

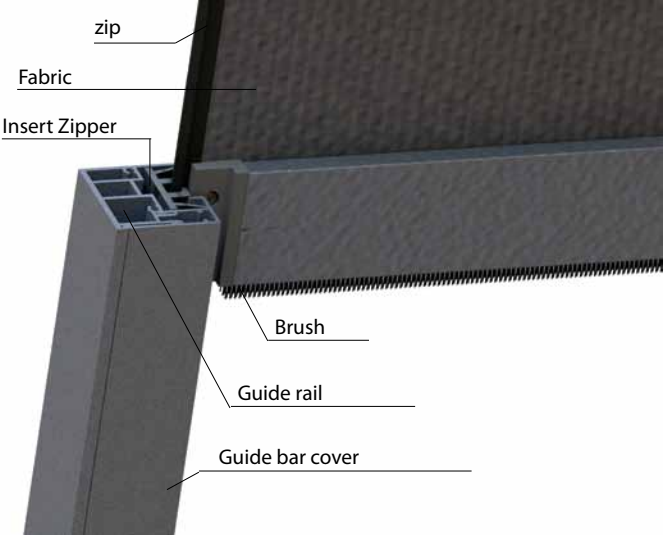


**Guide rail**  
(7-303770-0000)



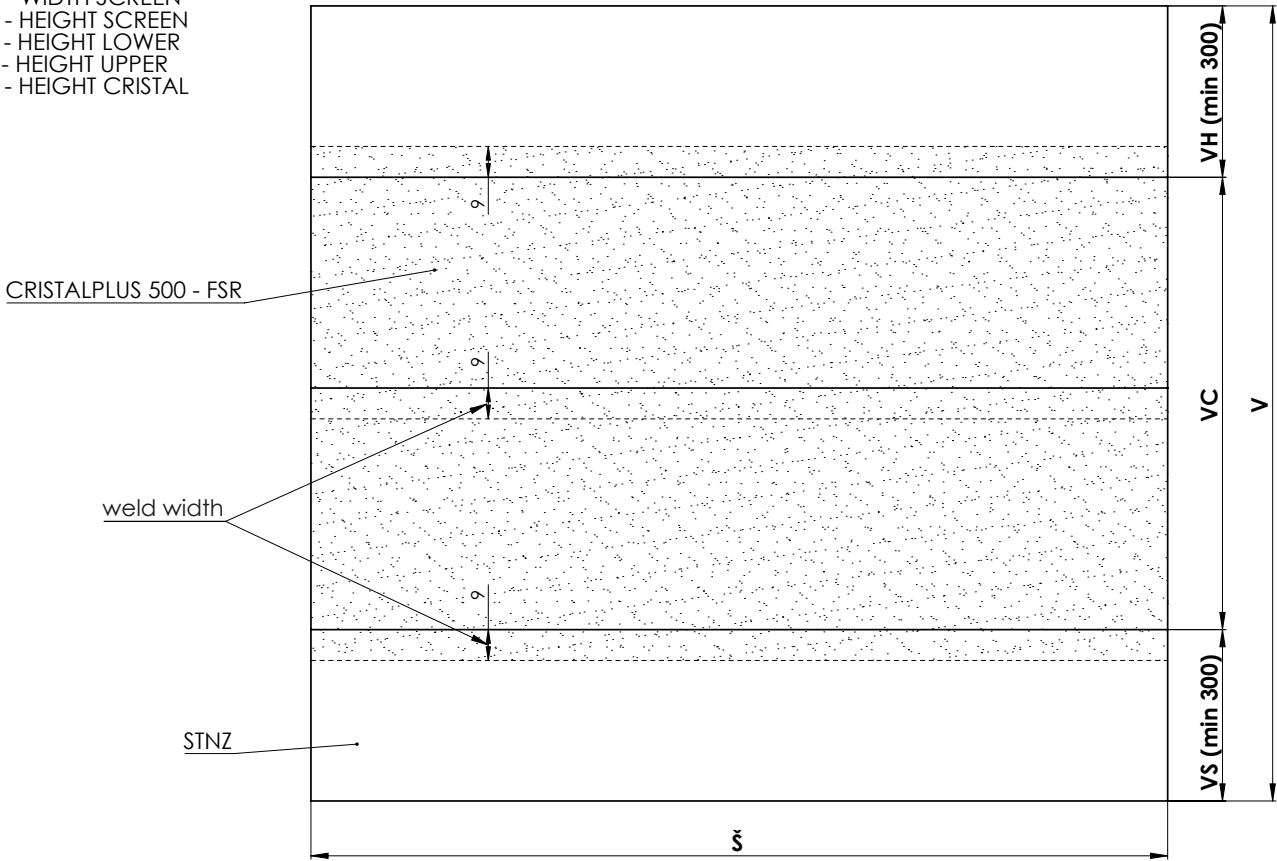
GS40 non-drilled guide rail  
GS40c front drilled  
GS40b drilled sideways

ZIP system



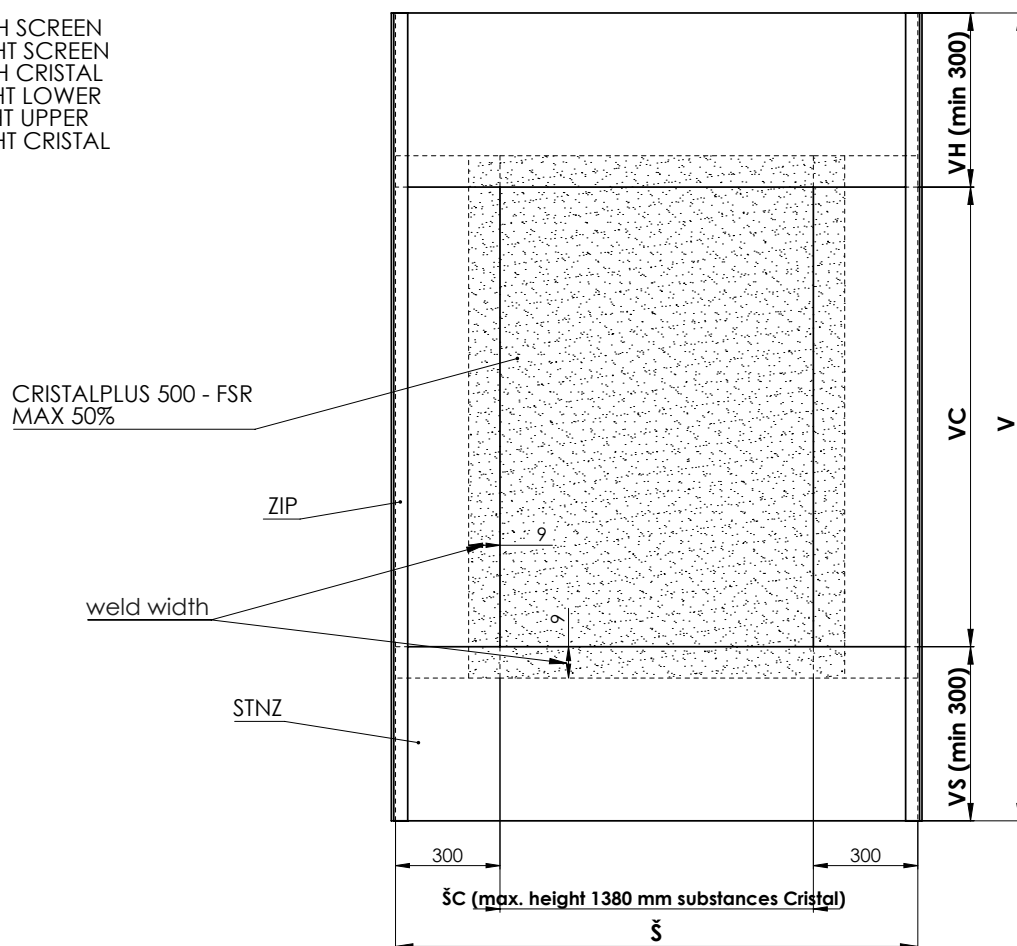
Cristal fabric is fringed by strip of STNZ fabric

Š - WIDTH SCREEN  
V - HEIGHT SCREEN  
VS - HEIGHT LOWER  
VH - HEIGHT UPPER  
VC - HEIGHT CRISTAL



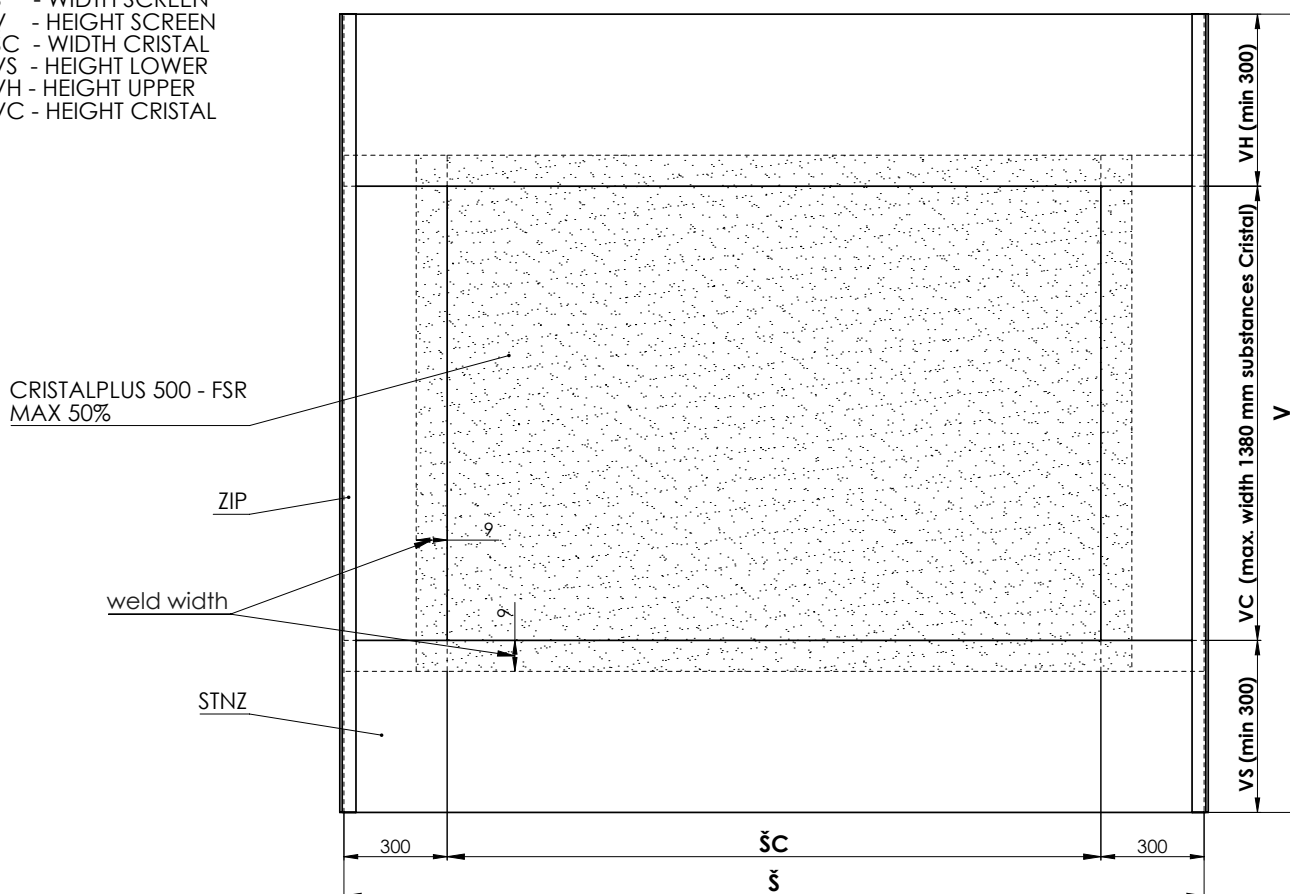
OPTION OF THE FABRIC CRISTAL FOR PRODUCTS GW AND LITE

$\check{S}$  - WIDTH SCREEN  
 $V$  - HEIGHT SCREEN  
 $\check{S}C$  - WIDTH CRISTAL  
 $VS$  - HEIGHT LOWER  
 $VH$  - HEIGHT UPPER  
 $VC$  - HEIGHT CRISTAL



OPTION OF THE VERTICAL FABRIC CRISTAL FOR PRODUCTS SCREEN ZIP AND SCREEN ZIP ECONOMY

$\check{S}$  - WIDTH SCREEN  
 $V$  - HEIGHT SCREEN  
 $\check{S}C$  - WIDTH CRISTAL  
 $VS$  - HEIGHT LOWER  
 $VH$  - HEIGHT UPPER  
 $VC$  - HEIGHT CRISTAL



OPTION OF THE HORIZONTAL FABRIC CRISTAL FOR PRODUCT SCREEN ZIP AND SCREEN ZIP ECONOMY

## SCREEN ZIP

### Measurement Manual

#### Measurement Manual

The SCREEN ZIP roller blinds can be placed into an opening or in front of it, and attached to the ceiling or wall.

The screen roller blind width and height shall be measured as follows:

#### w ... width (mm)

a) attachment into an opening:

Measure the actual opening width in three points, indicate the lowest dimension measured in the order form.

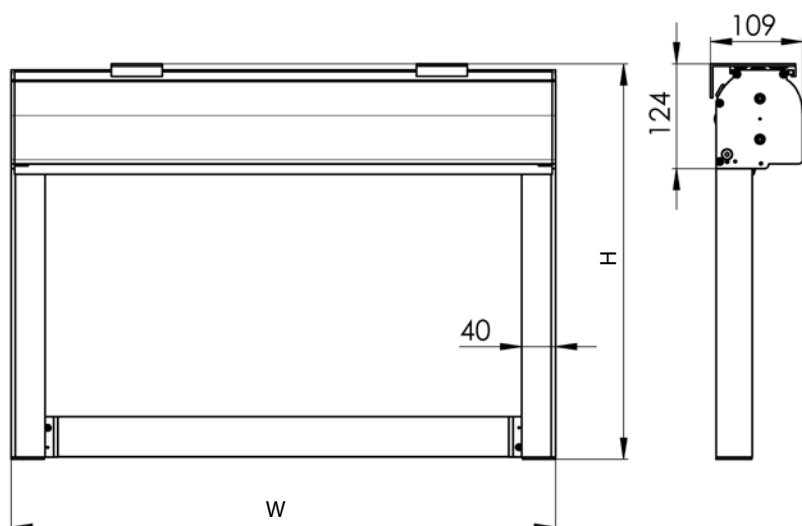
b) attachment in front of an opening:

As a rule, indicate the width of the opening which is to be shaded in the order form „+ 2 x 40 mm“.

Dimensions outside the stipulated limits must be consulted with the manufacturer.

#### h ... height (mm)

Measure the overall height including the roller blind upper section and holder.



Dimensions outside the stipulated limits must also be consulted with the manufacturer.

More information in the separate document **Measurement and assembly instructions**.



## SCREEN ZIP

### Assembly

#### Assembly

Assembly works must be carried out solely by qualified personnel capable of adhering to all instructions stated below with full consideration of their safety and that of all other persons.

The main activities include:

- 1) preparation of walls, ceilings, windows or other structures for the assembly of roller blinds while using portable drills and screwdrivers;
- 2) roller blind assembly to a wall or ceiling;
- 3) connection to power mains;
- 4) adjustment (of end stops / end switches, etc.) and testing of the roller blind.

#### Preparation of roller blind assembly

Prior to installing the roller blind, check whether the surface of the assembly place is not damaged and if it is suitable for assembly. Select suitable attachment screws (type and dimensions) corresponding to the type of structure onto which the roller blind is to be installed (wood, cement, brick).

NOTE: Faulty assembly can lead to accidents. Observe instructions for the proper roller blind assembly to prevent the risk of separation of the roller blind from a wall or window. ISOTRA a. s. shall not be held responsible for defects caused by faulty assembly.

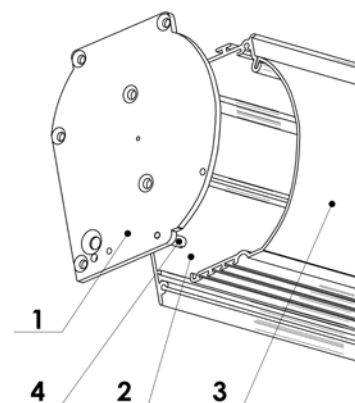
#### Roller blind assembly

The roller blind can be installed using two different methods:

1. direct assembly to guide bars, attached to a ceiling or wall;
2. assembly to a ceiling or frontal assembly using special attachment brackets.

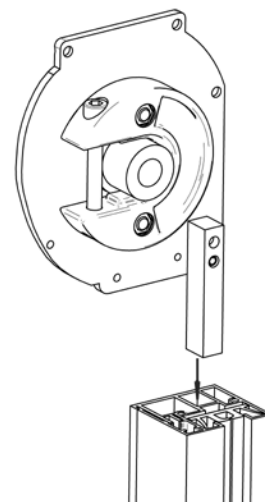
#### Upper box assembly

The upper box consists of three parts: side board (1), fixed part (2) and removable part (3). If it is necessary to remove the winding drum, the access to the upper box is possible after removing two screws (4) – one on each side – and removing the removable part of the box.



#### Direct assembly to guide bar

Insert the rectangular brass pin, projecting from the lower part of the side board, into the guide bar, as shown in the picture. No screws are necessary.



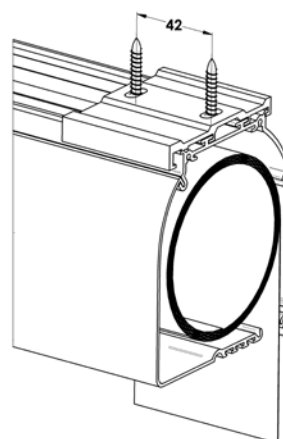
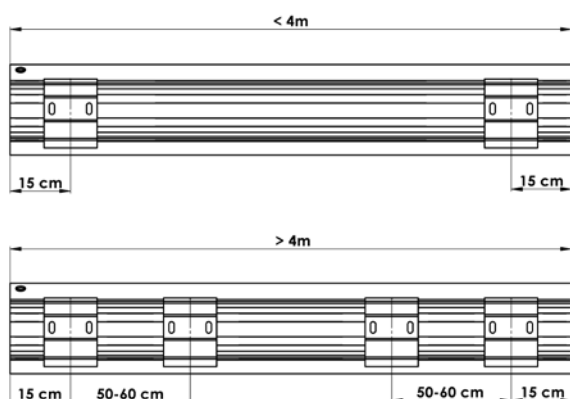
## SCREEN ZIP

### Assembly to ceiling

#### Assembly to ceiling

Mark the position of holes to be drilled, considering the following factors:

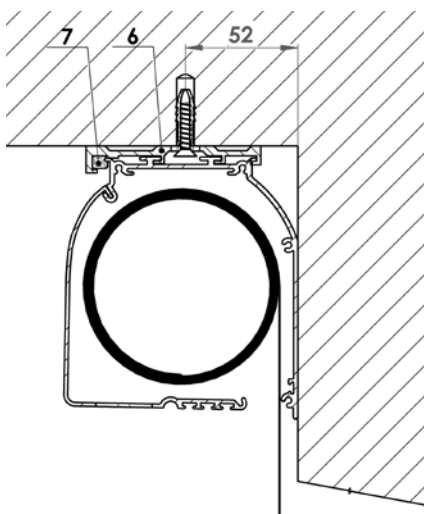
- for upper boxes having the width of max. 4.0 m, two brackets are sufficient which must be installed in a distance of approximately 15–20 cm from each end;
- for wider roller blinds, four brackets (two pairs) are necessary, one in a distance of 15–20 cm from each end and the second in a distance of 50–60 cm from the first one;



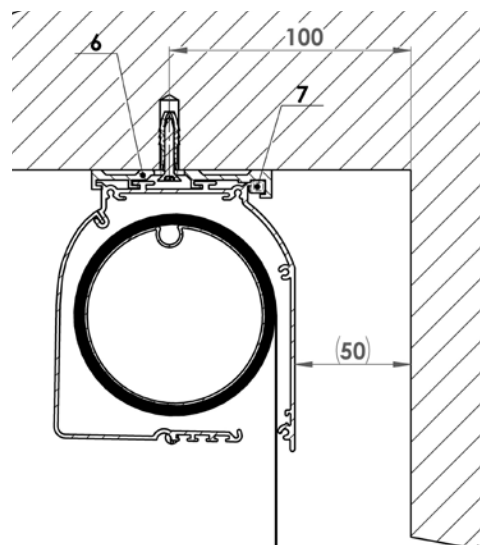
- if possible, the distance from the wall depends on the bracket attachment method, i.e. the position of wedges:
  - front wedge: **52 mm**
  - rear wedge: **100 mm**

The following facts must be kept in mind:

- assembly of a bracket with wedges pointing toward the room minimises the distance between the upper box and the rear wall, but the bracket is visible and not visually attractive;
- assembly of a bracket with wedges in the back is more aesthetically desirable, but requires at least 5 cm of space between the back wall and the upper box.



Attach brackets (6) using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, window frame, wall, other material). If three or more brackets are used, ensure that the brackets are perfectly aligned  $\pm 1$  mm; this can be checked by sliding the box along the cut-outs before tightening the attachment screws.



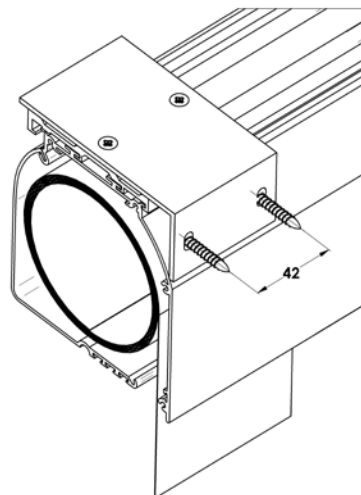
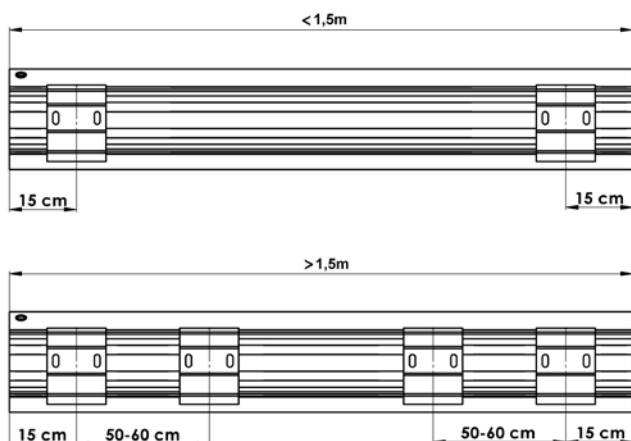
Insert the upper box to the brackets and slide it lengthwise until it is centred within the window wing, and secure with wedges (7).

## SCREEN ZIP

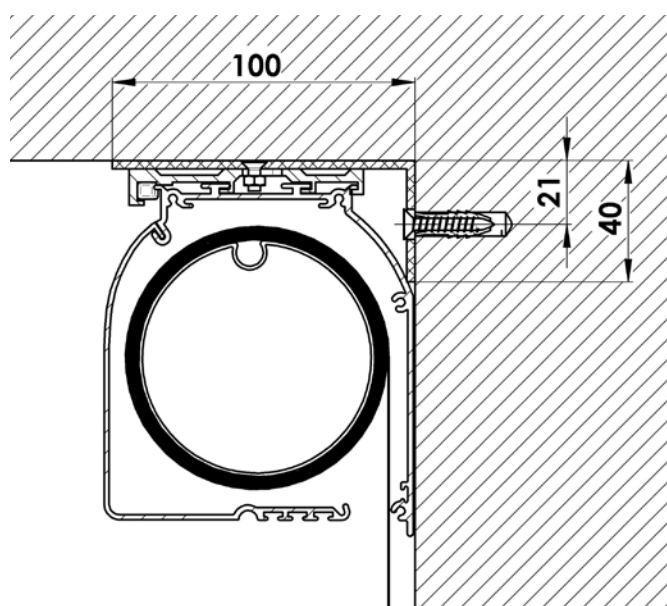
### Assembly to wall

#### Assembly to wall

Mark the position of angle-section brackets and holes to be drilled. For upper boxes having the width of max. 1.5 m, two brackets are sufficient, which must be installed in a distance of approximately 15–20 cm from each end. For wider roller blinds, four brackets (two pairs) are necessary, one in a distance of 15–20 cm from each end and the second in a distance of 50–60 cm from the first one.



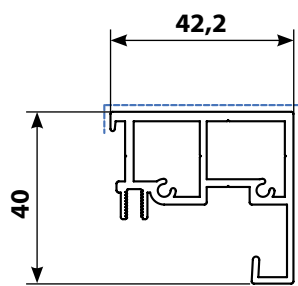
Assembly holes must be placed at least 25 and 50 mm from the ceiling or any obstacle exceeding the box. Attach brackets using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, window frame, wall, other material). If four brackets are used, ensure that the brackets are perfectly aligned  $\pm 1$  mm; this can be checked by sliding the box along the cut-outs before tightening the attachment screws. Install the box to brackets and slide it lengthwise until it is centred within the window wing.



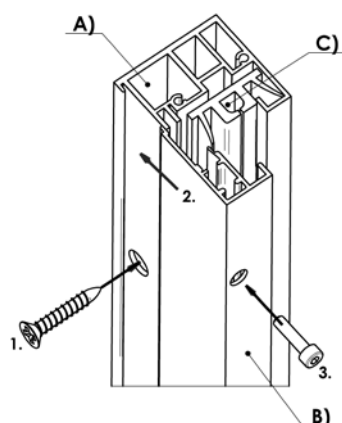
## SCREEN ZIP

### Assembly of guide bars

#### Assembly of guide bars



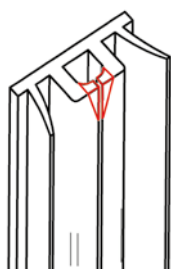
Proper method of assembly of guide rail to the box depends on the box model used, and whether the box is attached to the ceiling, wall or directly to the guide bars. Only one type of guide bars is available – GC20.



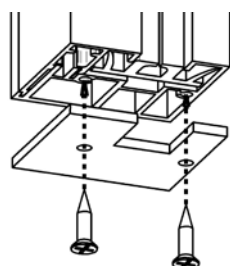
The ZIP guide bars consist of three parts: two aluminium rails and a plastic inner rail, in which the ZIP runs.

- A - aluminium guide rail;
- B - aluminium rail cover;
- C - plastic guide rail.

1. First, attach aluminium guide bar A) to the wall.
2. Insert plastic guide rail C) and close the unit with aluminium rail cover B).
3. Use the supplied socket head screws to attach the cover to the guide rail.

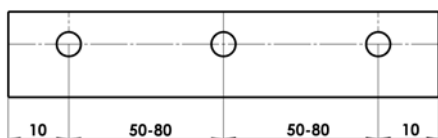


Cut the guide bar to length so that the edge is perfectly rectangular. After cutting the inner plastic rail, both upper edges of the section should be bevelled, as shown in the picture, which prevents wear of the fabric caused by sharp edges during operation.



If the guide bars do not lean against the window sill or floor, end covers must be used. Before further installation steps, attach the cover by supplied screws.

## Assembly of GS40 guide rail

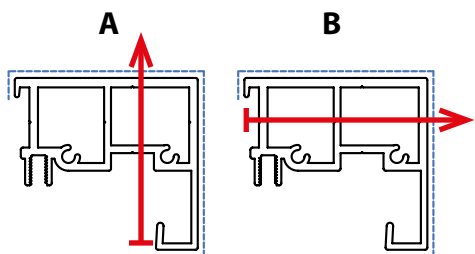


For model ZIP, only one type of guide rail is available – GC20.

The rail is supplied with pre-drilled holes, as per order, from the front or from the side.

Placement of holes:

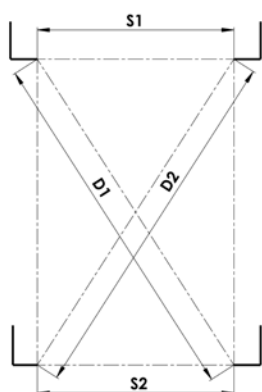
- outer holes are placed approx. 10 cm from the bar edge;
- intermediate holes are placed at approx. each 50–80 cm evenly along the guide bar.



The red line indicates the vertical axis for attachment screws. Use the drilled guide bars as a template for transferring the hole positions to the window wing wall. Attach the guide bars to the wall using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, cement, brick, etc.).

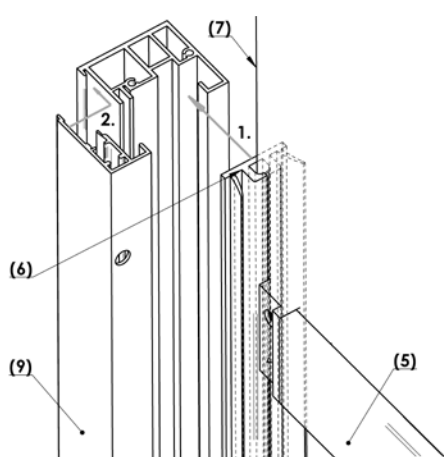
A - standard version

B - put a note in the order form for B assembly



Once the assembly is finished, check parallelism and rectangularity of the guide bars. This can be done by measuring two distances "S1" and "S2" or diagonals "D1" and "D2". The dimensions must be the same  $\pm 2$  mm. Proper guide bar placement is vital, otherwise the function of the roller blind can be impaired. For front guide bar installation, self-adhesive covers are supplied to cover the attachment screw holes.

## Assembly of plastic parts



Handle the roller blind carefully and pull the fabric down by 20 cm.

Slide lower section (5) to the side so that the fabric leaves the lateral slot on one side. Then insert inner rail (6) to the fabric and squeeze in ZIP (7).

1. Squeeze the inner rail directly to the guide rail lateral slot where it will straighten spontaneously. The inner rail lies on the ground or on the end piece and there is no need to fix it.

2. Slide guide rail cover (9) aslant, fixing guide rail (6) in the guide rail. Use gentle pressure to click it to right position and fix with screws. Start from the top and slowly move down the guide rail.

## SCREEN ZIP

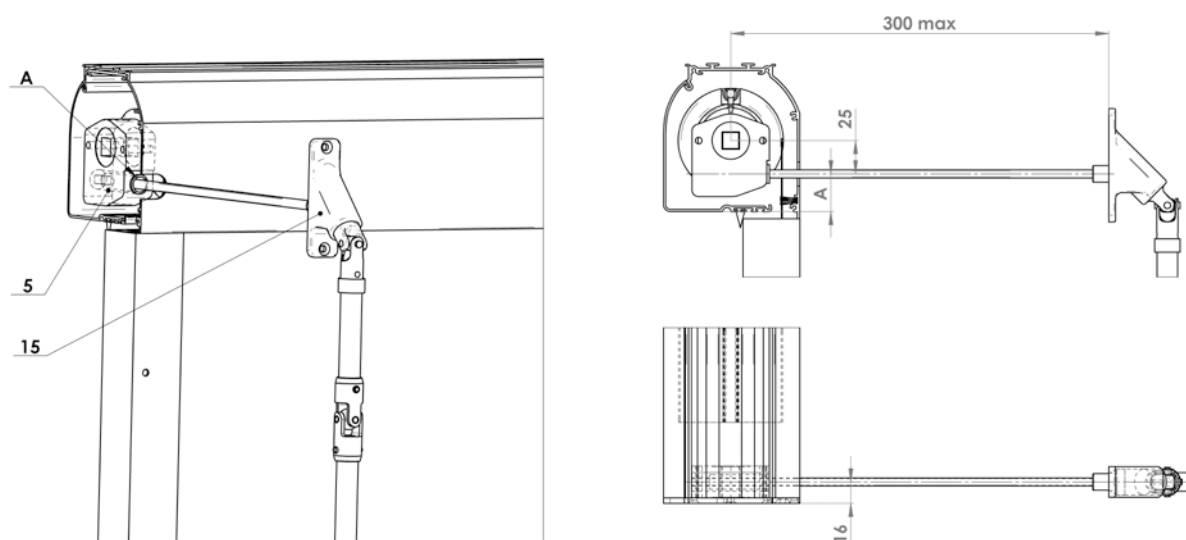
### Assembly of handle

#### Assembly of exterior handle with sleeve passing through wall

Handle – option with bushing (Ks)

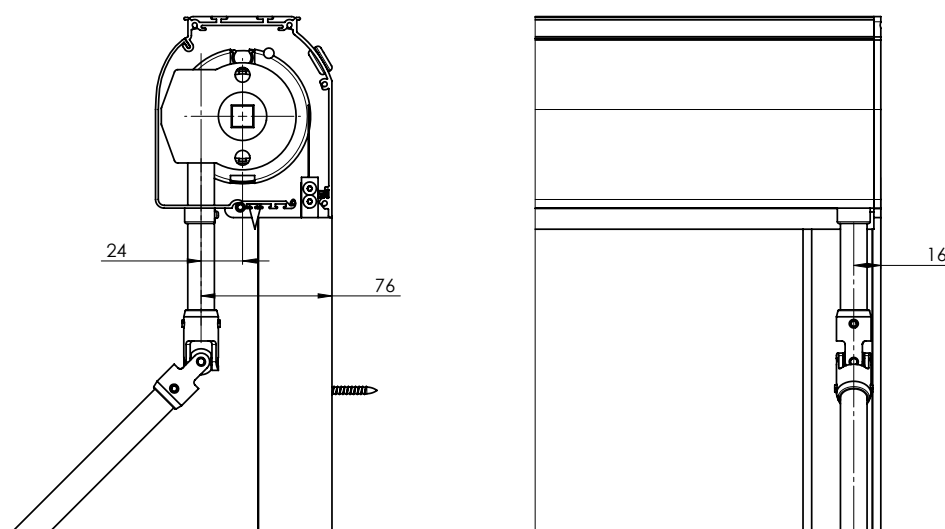
For exterior roller blinds installed with a sleeve passing through a wall and with a handle rod in the interior, it is necessary to calculate the exact position of the hole for a 30-cm angular rod (15).

- Attach the brackets to a wall or ceiling and install the roller blind in its place. Use a pencil to mark the position of the box lower corner on the wall or window frame. Remove the roller blind from the brackets and measure the distance from the box lower corner to the centre of the hole (A) in the rear part of the box (which serves for inserting the angular rod to control the transmission system). Mark the same distance on the wall, thus marking the centre of the hole to be drilled.
- Carefully drill a hole through the wall using an 8-mm drill bit. The hole must be as level as possible.
- Install the roller blind back and insert a sleeve from the interior to check accuracy of the hole position. Then cut the angular rod to size using a hack-saw. The rod size depends on the wall thickness.



Handle – straight option (K)

Handle with roller blind by delivery connected





## SCREEN ZIP ECONOMY



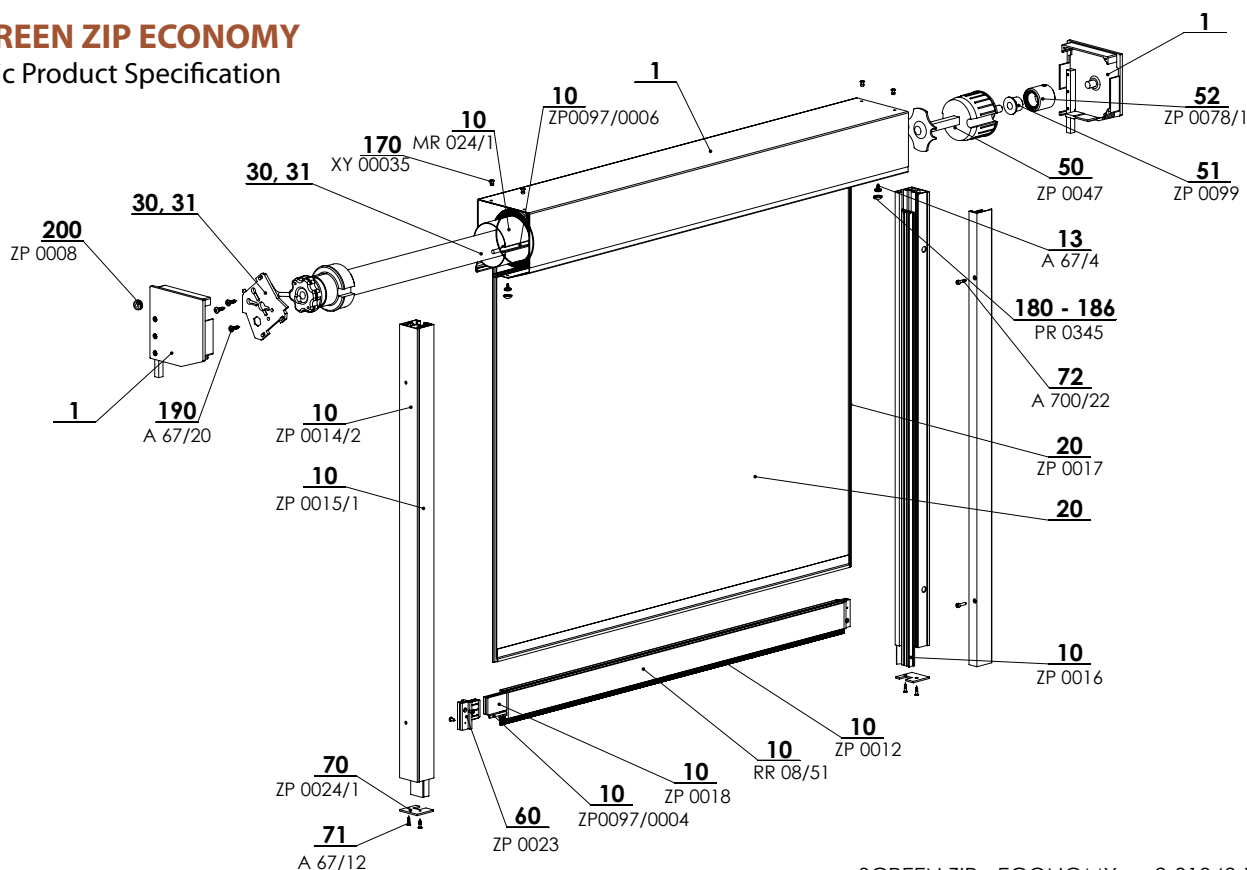
- ▲ Modern and stylish element of both the exterior and the interior of buildings,
- ▲ minimum light transmission thanks to the absolute fabric tension,
- ▲ high wind resistance (wind class 3),
- ▲ thermal regulation effect,
- ▲ insect protection when closed,
- ▲ cost-effective variant of the SCREEN ZIP model,
- ▲ motor controls.

**ISOTRA** *Quality*



## SCREEN ZIP ECONOMY

### Basic Product Specification



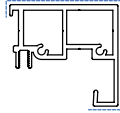
### Control

Used for lifting and lowering of screen blinds.

**Motor** - Optional control using the sun / wind sensor or by a remote control or switch.

SCREEN ZIP - ECONOMY 2-01048-XXXX-C

### Specification

|                        | Head Rail                                                                           |                                                                                     | Bottom Rail                                                                                                         | Side Guidance Guide Rail                                                              | Installation                                |
|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------|
|                        | Box                                                                                 | Winding Drum                                                                        |                                                                                                                     |                                                                                       |                                             |
| <b>Commercial Name</b> | PR0001                                                                              | MR 024/1                                                                            | FZ 47                                                                                                               | GS40                                                                                  | on the wall<br>(in front of window opening) |
| <b>Dimension (mm)</b>  | 128x129                                                                             | Ø 78 mm                                                                             | 20x47,4                                                                                                             | 40x42,2                                                                               |                                             |
| <b>Material</b>        | Al                                                                                  | Fe                                                                                  | Al                                                                                                                  | Al                                                                                    |                                             |
|                        |  |  |                                  |  |                                             |
| <b>Colour</b>          | Standard:<br>RAL 9006 light silver<br>RAL 9007 dark silver<br>RAL 9010 white        |                                                                                     | RAL 7016 anthracite grey<br>RAL 7016S anthracite grey structure<br>RAL 8014 brown<br>Other RAL colors upon request* |                                                                                       |                                             |

\*except of plastic parts.

We do not make atypical designs.

### Standard Dimensions

| Version | Width (mm) |      | Height (mm) |      | Guaranteed area (m²) |
|---------|------------|------|-------------|------|----------------------|
|         | min        | max  | min         | max  |                      |
| motor   | 800        | 4000 | 500         | 3000 | 12                   |

### 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).

### Common phenomena of technical fabrics

The fabric may curl around the welds or in the middle of the fabric, it is the so-called tree effect. This phenomenon is common because different forces act on the fabric during use. Another phenomenon may be visible bruises on the fabric caused by the roller. These disappear at higher temperatures when the fabric levels.

**Screen ZIP Economy (2-01048-0000)**

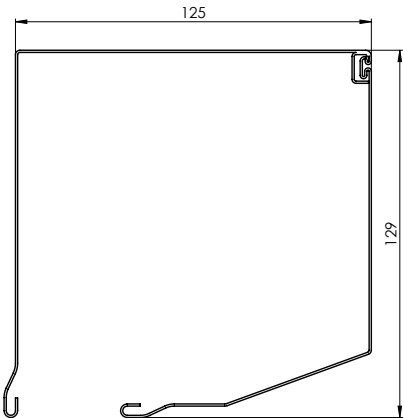
| position  | item name                                | business name | drawing number                       |
|-----------|------------------------------------------|---------------|--------------------------------------|
| 1         | Rolled box, GOT 125                      | PR0025        | 6-001699-0000                        |
| 1         | Rolled box, bevel 20°, GUTS 125          | PR0001        | 6-001701-0000                        |
| 1         | Side cap, 20° BKS 125 - pair             | PR0059        | 6-001755-0000                        |
| 1         | Under-plastering rail PS-V 20°           | PR0077        | 6-001852-0000                        |
| 1         | Extruded box, bevel 20°, RK 125          | PR0049        | 6-001684-0000                        |
| 1         | Box, upper part, 125 mm, 20°             | PR0054        | 7-302262-0000                        |
| 1         | Pin                                      | PR0647        | 3-02956-0000                         |
| 1         | Screw                                    | A700/26       | 6-003184-0000                        |
| 10        | Winding roller for awning 78mm           | MR 024/1      | 6-011084-0078                        |
| 10        | Plastic bar PVC 6,0 mm                   | ZP0097/0006   | 6-016911-0006                        |
| 10        | Bottom rail Al - FZ47, raw               | RR 08/51      | 7-302966-0000                        |
| 10        | Weight steel 4x30mm FeZn                 | ZP0018        | 6-008715-0000                        |
| 10        | Plastic rod 4,0mm                        | ZP0097/0004   | 6-016911-0004                        |
| 10        | Brush w=4,8mm x h=12mm                   | ZP0012        | 6-009148-0000                        |
| 10        | Insertion ZIP for GS40                   | ZP0016        | 6-008707-0001                        |
| 10        | Guiding channel Al - GS 40               | ZP0014/2      | 7-303770-0000                        |
| 10        | Guiding channel - cap Al - GS 40         | ZP0015/1      | 7-302972-0000                        |
| 13        | Screw 3,5x9,5mm                          | A 67/4        | 6-003096-0000                        |
| <b>20</b> | <b>Fabric screen</b>                     |               | <b>see Sampler of Screen fabrics</b> |
| 20        | ZIP                                      | ZP0017        | 6-008709-0000                        |
| <b>30</b> | <b>Motor (SOMFY, BECKER) SCREEN</b>      |               | <b>see Control</b>                   |
| 50        | Roller cover 78                          | ZP0047        | 6-009210-0078                        |
| 51        | Ball-bearing for ZipTex 28x12            | ZP0080        | 6-012325-0001                        |
| 52        | Adaptor                                  | ZP0078/1      | 2-01315-0000                         |
| 60        | Bottom rail end cup FZ 47 SET            | ZP0023        | 6-008949-0503                        |
| 70        | Ending - chuding channel - R/L           | ZP0024/1      | 7-303027-0000                        |
| 71        | Screw 3,5x16 DIN 7997                    | A 67/12       | 6-009093-0000                        |
| 80        | Socket head M4x16, DIN 912, 8.8,         | A 700/22      | 6-002280-0000                        |
| 170       | Pin Al 4x8 DIN 7337 A                    | XY 00035      | 6-011342-0000                        |
| 180       | Screw cover - double - PVC               | PR0345        | 6-002073-0001                        |
| 190       | Screw 5x20 Zn with half-round cross head | A 67/20       | 6-003060-0001                        |
| 200       | Rubber bushing for cable 11/7            | ZP0008        | 6-009196-0000                        |

SCREEN ZIP ECONOMY

Basic Product Specification

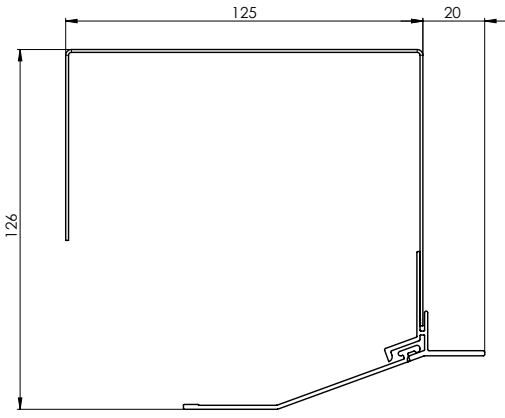
Box visible option

(PR0025 + PR0001)



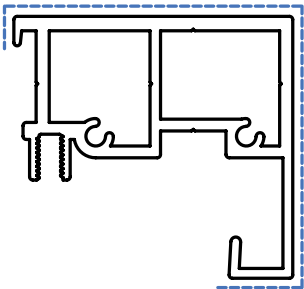
Under-plaster box

(PR0054 + PR0077 + PR0647)



Guide rail

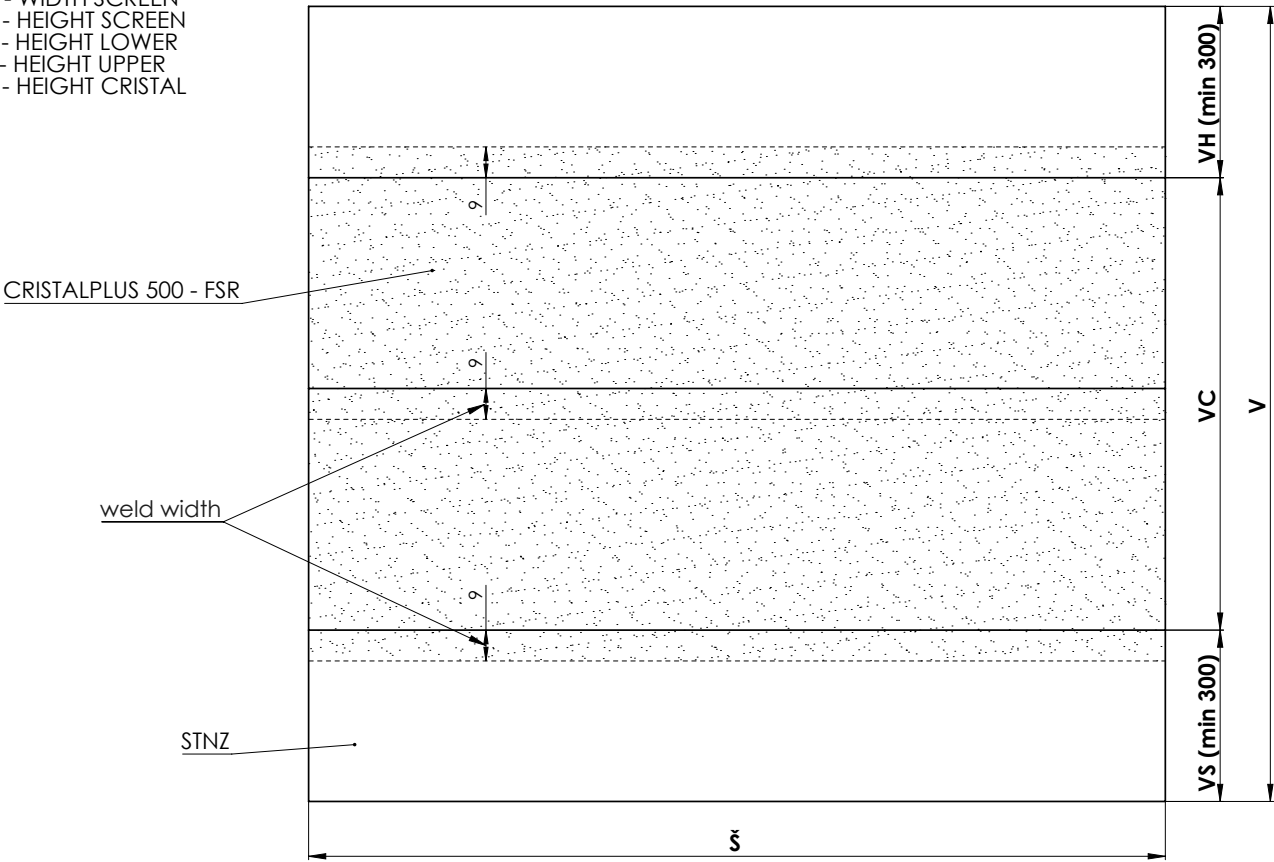
(7-303770-0000)



- GS40 non-drilled guide rail
- GS40c front drilled
- GS40b drilled sideways

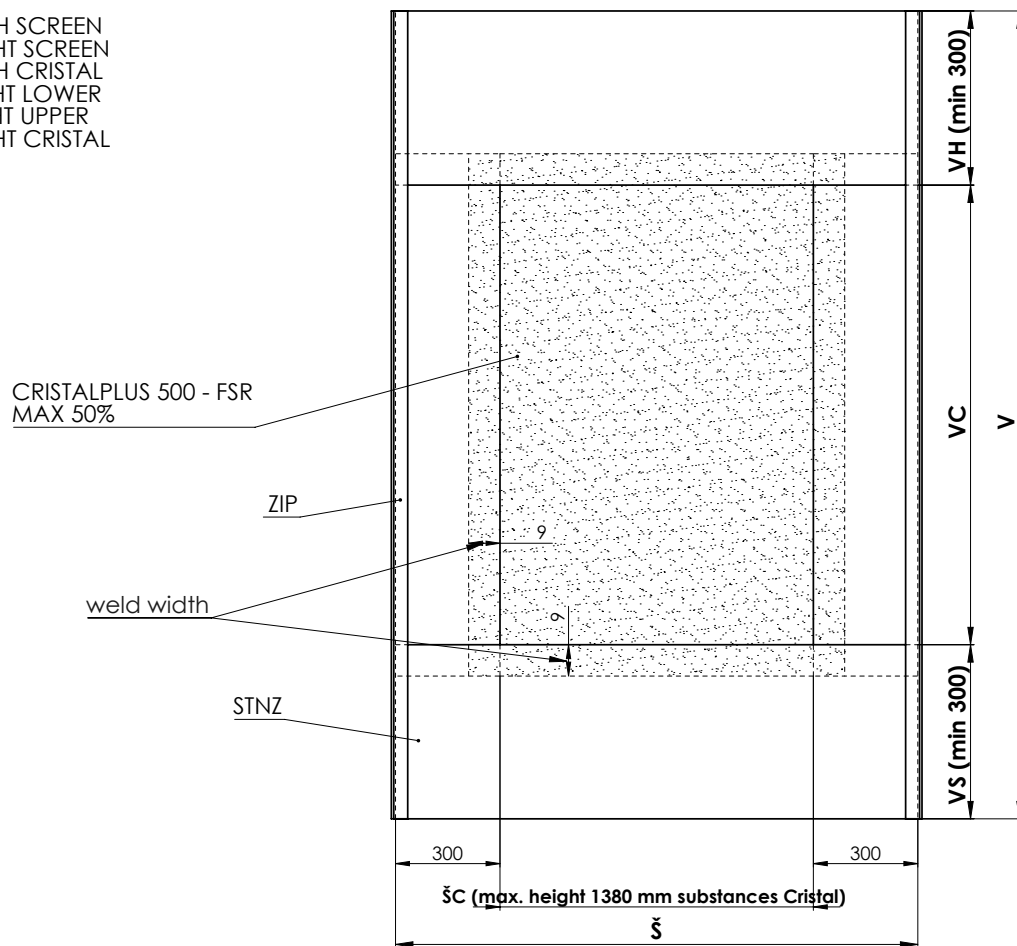
Cristal fabric is fringed by strip of STNZ fabric

- Š - WIDTH SCREEN
- V - HEIGHT SCREEN
- VS - HEIGHT LOWER
- VH - HEIGHT UPPER
- VC - HEIGHT CRISTAL



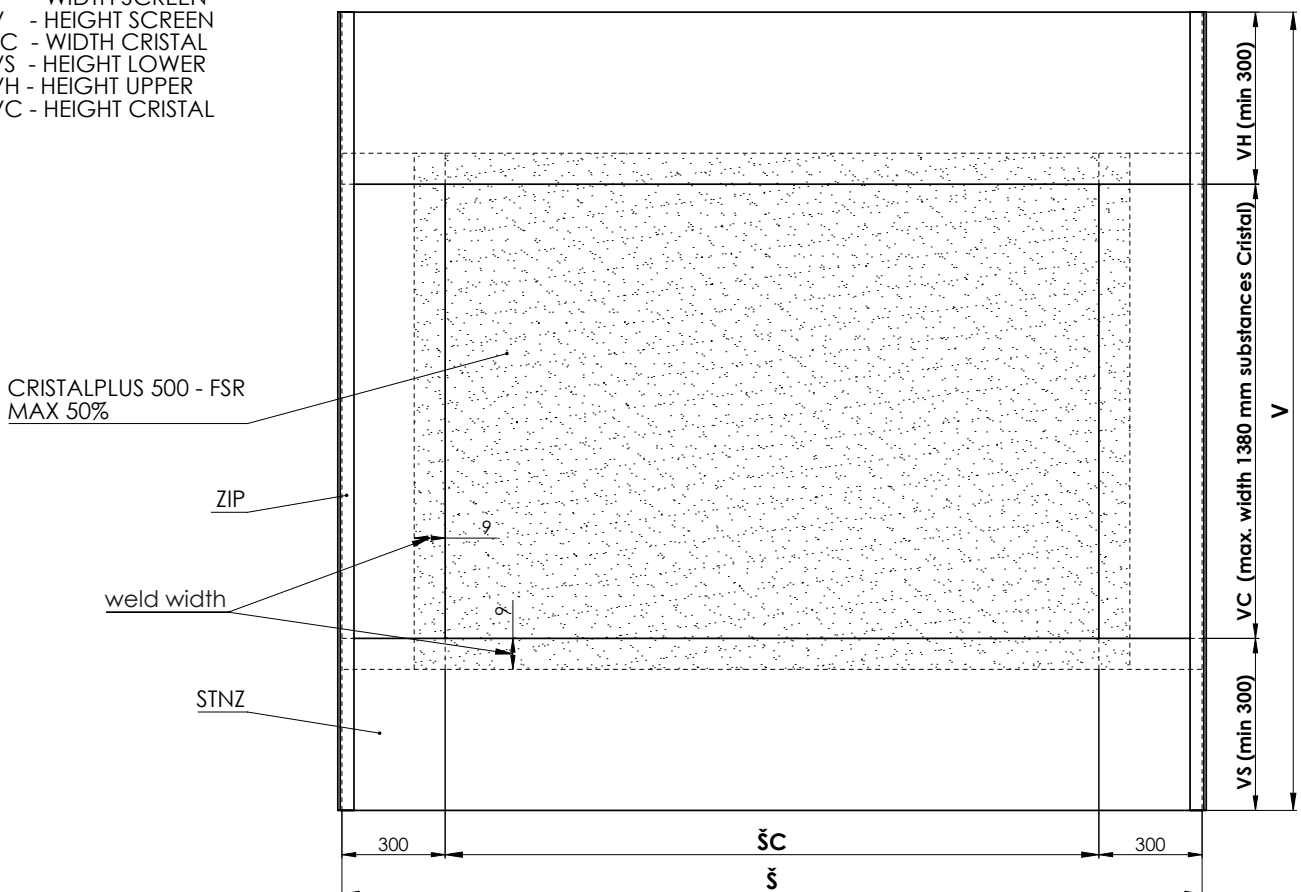
OPTION OF THE FABRIC CRISTAL FOR PRODUCTS GW AND LITE

$\check{S}$  - WIDTH SCREEN  
 $V$  - HEIGHT SCREEN  
 $\check{S}C$  - WIDTH CRISTAL  
 $VS$  - HEIGHT LOWER  
 $VH$  - HEIGHT UPPER  
 $VC$  - HEIGHT CRISTAL



OPTION OF THE VERTICAL FABRIC CRISTAL FOR PRODUCTS SCREEN ZIP AND SCREEN ZIP ECONOMY

$\check{S}$  - WIDTH SCREEN  
 $V$  - HEIGHT SCREEN  
 $\check{S}C$  - WIDTH CRISTAL  
 $VS$  - HEIGHT LOWER  
 $VH$  - HEIGHT UPPER  
 $VC$  - HEIGHT CRISTAL



OPTION OF THE HORIZONTAL FABRIC CRISTAL FOR PRODUCT SCREEN ZIP AND SCREEN ZIP ECONOMY

## SCREEN ZIP ECO

### Assembly

#### 1. Measuring

The SCREEN ZIP ECO blinds can be installed into an opening as well as in front of it, and attached to the wall.

The screen roller blind width and height shall be measured as follows:

W ..... (width)

a) assembly into an opening

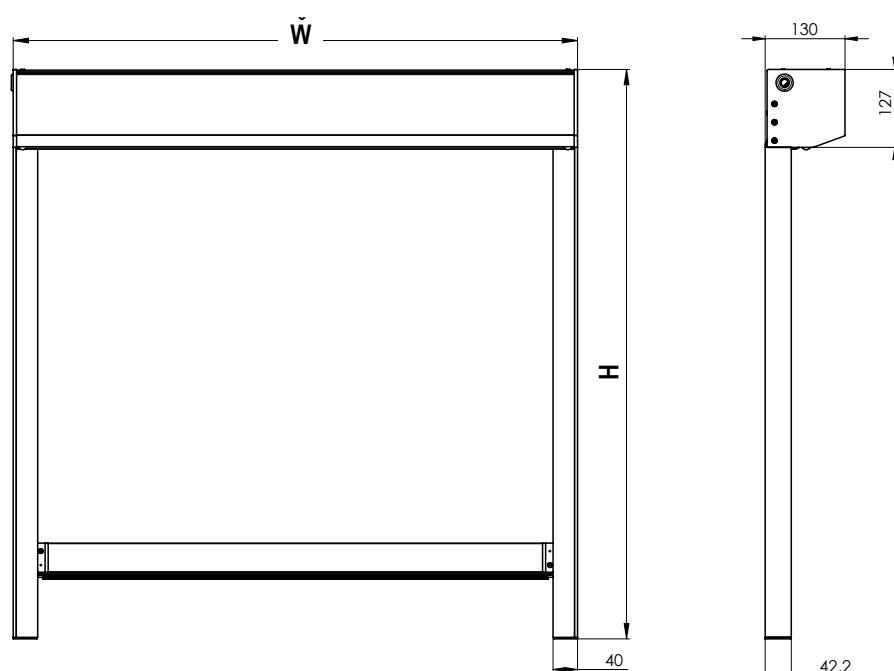
Measure the actual opening width in three points; indicate the lowest dimension measured in the order form „+ 2 x 40 mm“.

b) assembly in front of an opening Indicate the width of the opening to be shaded in the order form.

Dimensions outside the stipulated limits must be consulted with the manufacturer.

H ..... (height)

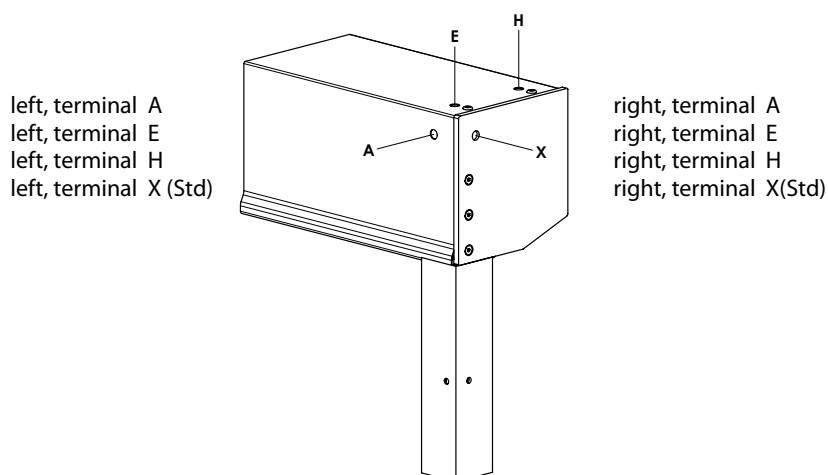
Measure the overall height including the roller blind upper section and holder.



Dimensions outside the specified limits must be consulted with the manufacturer.

More information in the separate document **Measurement and assembly instructions**.

#### Choice of cable location



## SCREEN ZIP ECONOMY

### Assembly

The main activities include:

- 1) preparation of walls, ceilings, windows or other structures for the assembly of roller blinds while using portable drills and screwdrivers;
- 2) roller blind assembly to a wall;
- 3) connection to power mains;
- 4) adjustment (of end stops / motor end switches, etc.) and testing of the roller blind.

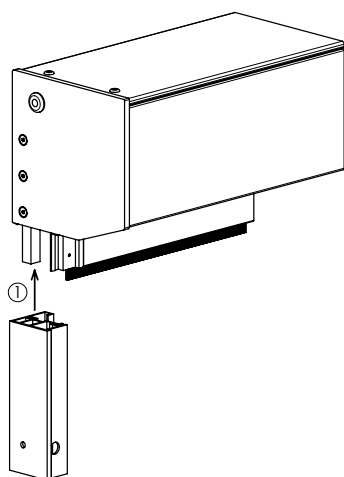
### ROLLER BLIND ASSEMBLY

Direct guide bar installation of to a wall.

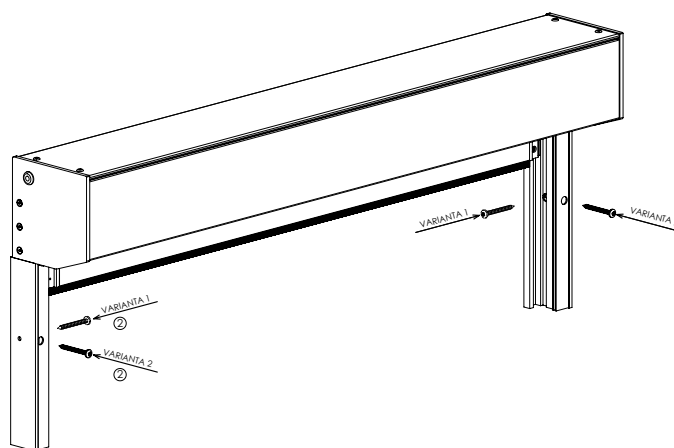
### ASSEMBLY OF BOX AND GUIDE BARS

Insert the guide bar to the side board pin. No screws are necessary. When inserting, slide the ZIP to the guide socket.

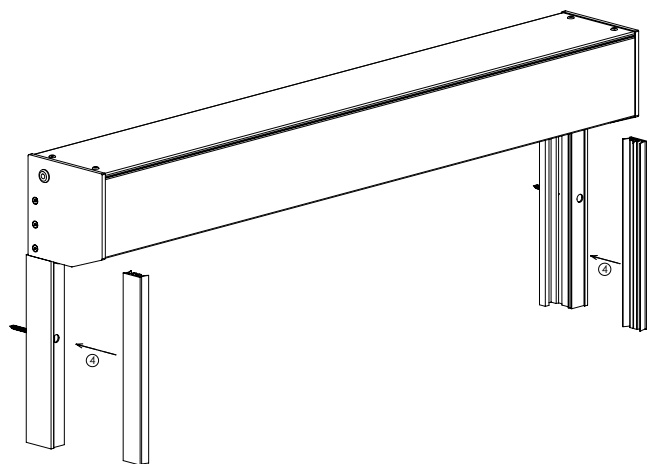
Connect guiding channels with box.



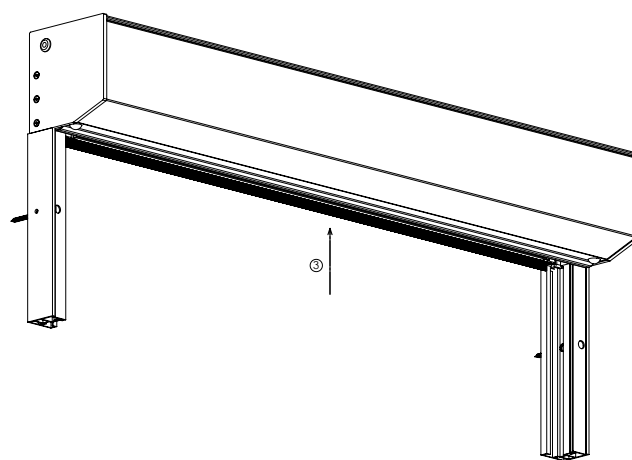
Place and screw the roller blind.



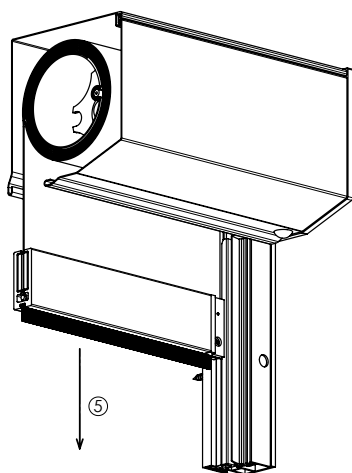
Wind up the fabric as highest as possible.



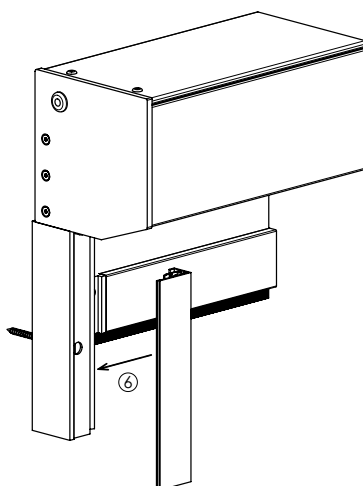
Mount the plastic guiding channels.



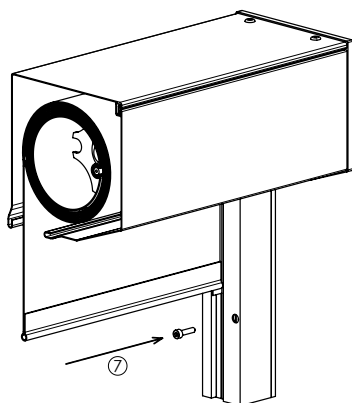
Insert the fabric into the guiding channels.



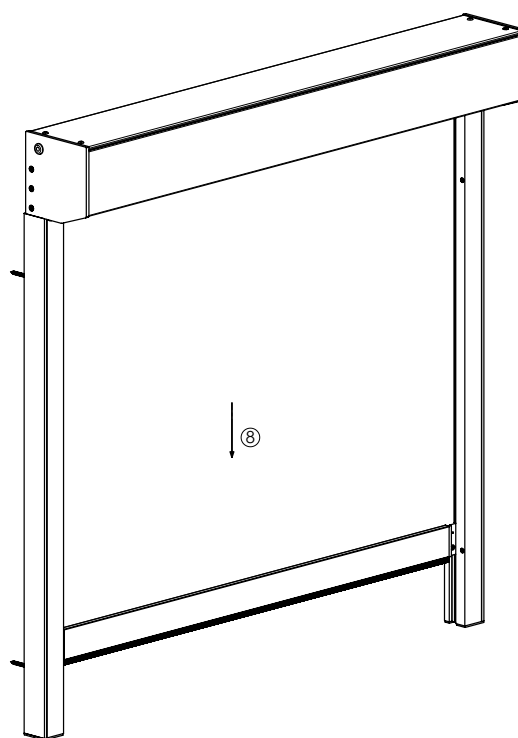
Put on the guiding channel cover.



Fix the cover channel with screw.



Check the functionality.





# SCREEN GW

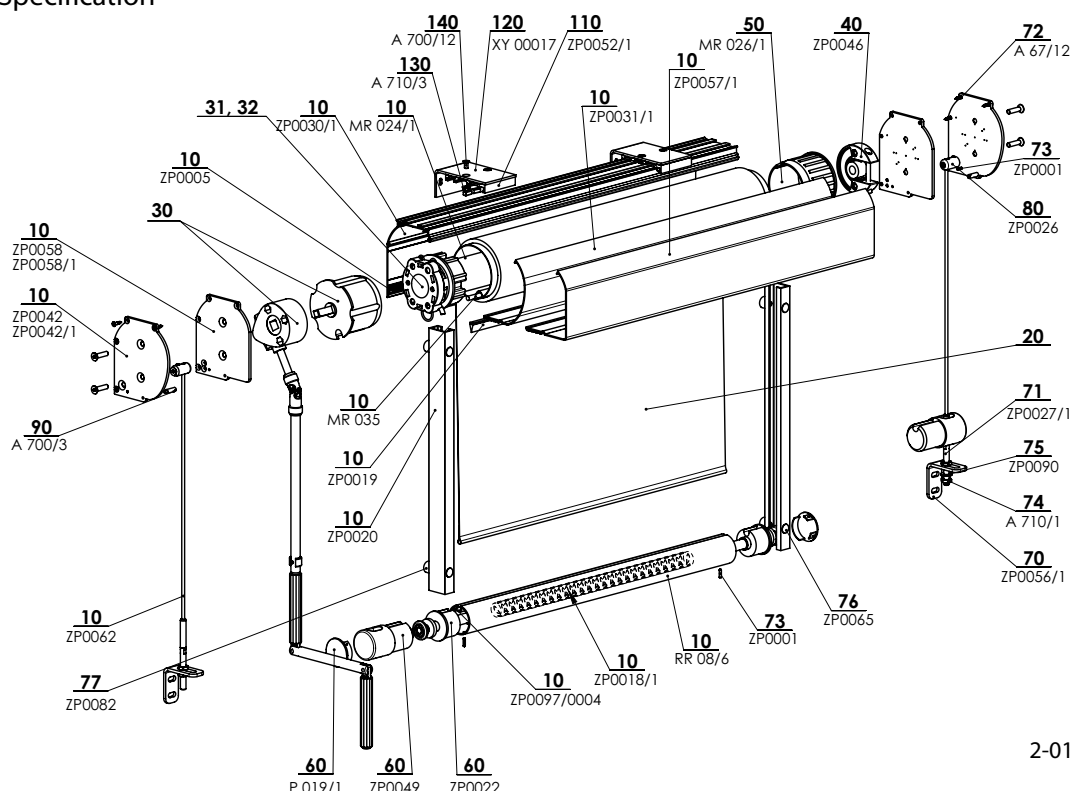


- ▲ Simple, modern and stylish appearance,
- ▲ screening of both the interior and the exterior areas,
- ▲ side guidance by a cable or by a guide rail,
- ▲ possibility of electric control,
- ▲ frame colour as per the RAL chart (except of plastic parts).
- ▲ high wind resistance (wind class 3),

**ISOTRA** *Quality*

## SCREEN GW

### Basic Product Specification



2-01396-0000-A

### Control

Used for lifting and lowering of screen blinds.

**Handle** - the control rod mechanism is led into the interior at an angle from 45 ° to 90 ° using a wall bushing and a hexagonal rod. (Color: grey / eloxal coating)

**Motor** - Optional control using the sun / wind sensor or by a remote control or switch.

### Specification

|                        | Head Rail                                                                           |                                                                                     |                                                                                     | Bottom Rail                                                                                                            | Side Guidance                                                                        |        | Installation                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------|
|                        | winding roller                                                                      | box                                                                                 | box                                                                                 |                                                                                                                        | Guide Rail                                                                           | Cable  |                                                                                                  |
| <b>Commercial Name</b> | MR 024/1                                                                            | C 105                                                                               | CT 105                                                                              | FD 42                                                                                                                  | GC 20                                                                                | ZP0062 | into the ceiling<br>(into the window opening)<br>on the wall<br>(in front of the window opening) |
| <b>Dimension (mm)</b>  | Ø 78 mm                                                                             | 103x116,5                                                                           | 104,5x116,5                                                                         | Ø 42 mm                                                                                                                | 33x19 mm                                                                             | Ø 4 mm |                                                                                                  |
| <b>Material</b>        | Fe                                                                                  | Al                                                                                  | Al                                                                                  | Al                                                                                                                     | Al                                                                                   | Fe     |                                                                                                  |
|                        |  |  |  |                                     |  |        |                                                                                                  |
| <b>Colour</b>          | grey                                                                                | Standard:<br>RAL 9006 light silver<br>RAL 9007 dark silver<br>RAL 9010 white        |                                                                                     | RAL 7016 anthracite grey<br>RAL 7016S anthracite grey<br>structure<br>RAL 8014 brown<br>Other RAL colors upon request* |                                                                                      | grey   |                                                                                                  |

\* except of plastic parts, maximum width 4000 mm

We do not make atypical designs.

### Standard Dimensions

| Version | Width (mm) |      | Height (mm) |      | Guaranteed area (m²) |
|---------|------------|------|-------------|------|----------------------|
|         | min        | max  | min         | max  |                      |
| handle  | 500        | 4000 | 500         | 3800 | 15,2                 |
| motor   | 800        | 4500 | 500         | 3800 | 18                   |

### Common phenomena of technical fabrics

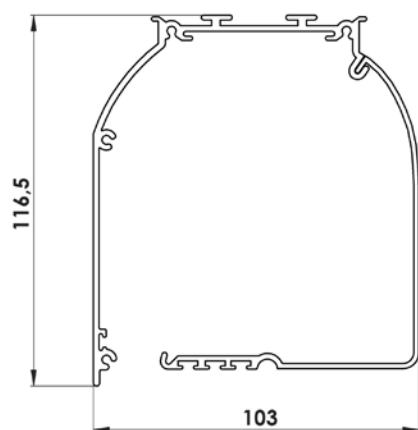
The fabric may curl around the welds or in the middle of the fabric, it is the so-called tree effect. This phenomenon is common because different forces act on the fabric during use. Another phenomenon may be visible bruises on the fabric caused by the roller. These disappear at higher temperatures when the fabric levels.

**SCREEN GW (2-01396-0000)**

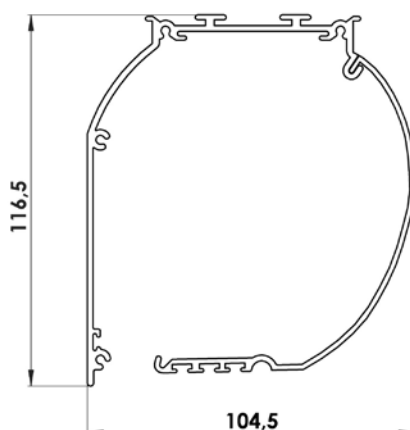
| position     | item name                                                | business name | drawing number                       |
|--------------|----------------------------------------------------------|---------------|--------------------------------------|
| 10           | Bottom rail Al - FD 42 raw                               | RR 08/6       | 6-009147-0000                        |
| 10           | Rounded weight steel                                     | ZP0018/1      | 3-02880-PU27                         |
| 10           | Black brush w.4.8 x h. 7mm                               | ZP0005        | 6-009219-0000                        |
| 10           | Plastic rod 4,0 mm PVC                                   | ZP0097/0004   | 6-016911-0004                        |
| 10           | Al cover CT105 upper                                     | ZP0030        | 6-009138-0001                        |
| 10           | Al cover CT105 bottom                                    | ZP0031        | 6-009139-0001                        |
| 10           | Al cover CT105 square raw                                | ZP0057        | 6-011455-0000                        |
| 10           | Side cover CT105 - round, elox                           | ZP0042        | 6-009194-0002                        |
| 10           | Side cover round - couple                                | ZP0042/1      | 2-01007-0000                         |
| 10           | Side cover square, elox                                  | ZP0058        | 6-011456-0000                        |
| 10           | Side cove square - couple                                | ZP0058/1      | 2-01008-0000                         |
| 10           | PVC sealing 5,5 x 12 mm                                  | ZP0019        | 6-008716-0000                        |
| 10           | Winding roller for awnings dia. 78 mm - 6 m              | MR 024/1      | 6-011084-0078                        |
| 10           | Plastic bar PVC 6,0 mm                                   | ZP0097/0006   | 6-016911-0006                        |
| 10           | Steel wire 4mm                                           | ZP0062        | 6-011492-0000                        |
| 10           | Guide channel GC20 raw                                   | ZP0020        | 6-008727-0000                        |
| <b>20</b>    | <b>Screen fabric</b>                                     |               | <b>see Sampler of Screen fabrics</b> |
| <b>30</b>    | <b>Motor (SOMFY, BECKER) screen</b>                      |               | <b>see Control</b>                   |
| <b>31,32</b> | <b>Motors (SOMFY, BECKER) screen &lt; 800 + samplers</b> |               | <b>see Control</b>                   |
| 40           | Set for motor: AL holder with case                       | ZP0046        | 6-009209-0000                        |
| 50           | Roller cover dia. 78mm with pin                          | MR 026/1      | 6-011086-0078                        |
| 60           | Bottom rail end cup FD 42                                | ZP0022        | 6-008736-0030                        |
| 60           | Black end cup screen                                     | ZP0049        | 3-02208-9004                         |
| 60           | Guide channel cover dia. 40                              | P 019/1       | 3-01849-9006                         |
| 70           | Tensioning wire angle - stainless steel, unpainted       | ZP0056/1      | 3-02431-0000                         |
| 71           | Tensioning screw                                         | ZP0027/1      | 3-02430-0000                         |
| 72           | Screw 3,5x16 DIN 7997                                    | A 67/12       | 6-009093-0000                        |
| 73           | Spring pin 3x12 DIN 7346                                 | ZP0001        | 6-009807-0000                        |
| 74           | Low nut M8 stainless DIN 439B A2                         | A 710/1       | 6-010705-0000                        |
| 75           | Pad M8, DIN 125-A1, A2                                   | ZP0090        | 6-009997-0002                        |
| 76           | Self-adhesive cover 606-172-13 silver RAL9006            | ZP0065        | 6-011520-0000                        |
| 77           | Mounting pad - guide channel GC20                        | ZP0082        | 7-302422-0000                        |
| 80           | Wire tensioner - Z105 for upper cover                    | ZP0026        | 6-009056-0000                        |
| 90           | Cover locking screw M4                                   | A 700/3       | 7-303030-0000                        |
| 110          | Profile - Fixed holder for Screen                        | ZP0052/1      | 3-03058-PU11                         |
| 120          | Bent angle Fe 100/40                                     | XY 00017      | 3-02233-PU22                         |
| 130          | Nut M5 DIN 6923                                          | A 710/3       | 6-011882-0000                        |
| 140          | Screw M5x10 Zn DIN 965-H                                 | A 700/12      | 6-003186-0000                        |

## SCREEN GW

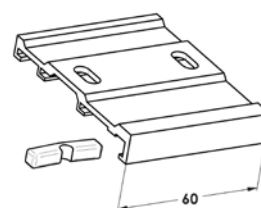
**Head Rail C 105**



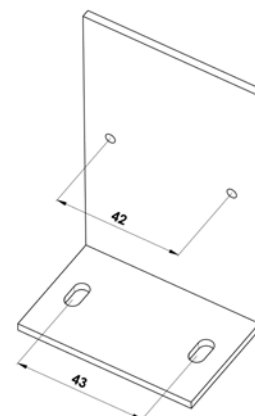
**Head Rail CT 105**



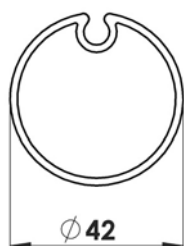
**Head rail hanger**  
(6-009232)



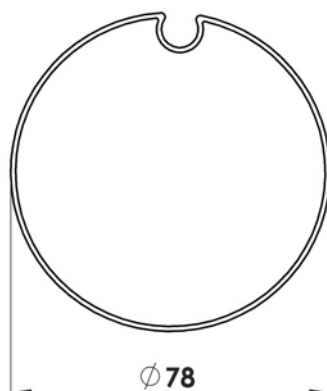
**Square L**  
(7-302233)



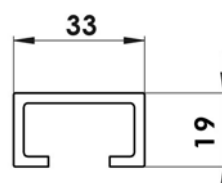
**Bottom rail FZ 47**  
(RR 08/6, 6-009147)



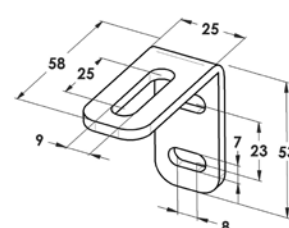
**Winding roller**  
(6-011084)



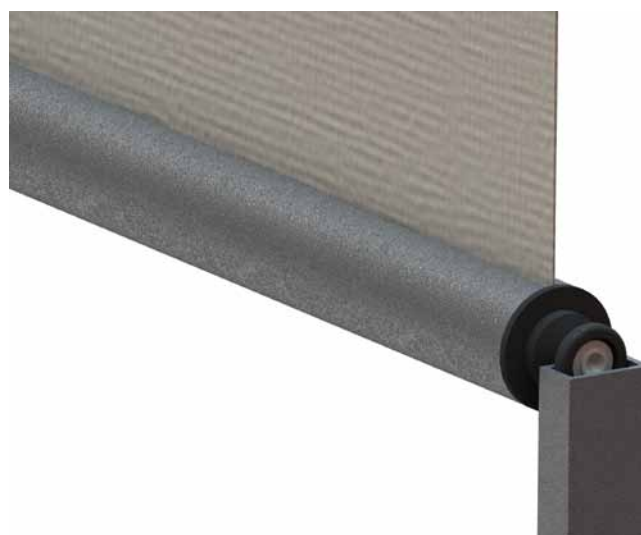
**Guide rail**  
(6-008727)



**Bracket for steel wire**  
(302431)



### Design variants



## SCREEN GW

### Measurement Manual

#### Measurement Manual

The SCREEN GW roller blinds can be placed into an opening or in front of it, and attached to the ceiling or wall.

The screen roller blind width and height shall be measured as follows:

#### W ..... width (mm)

a) attachment into an opening:

Measure the actual opening width in three points, indicate the lowest dimension measured in the order form.

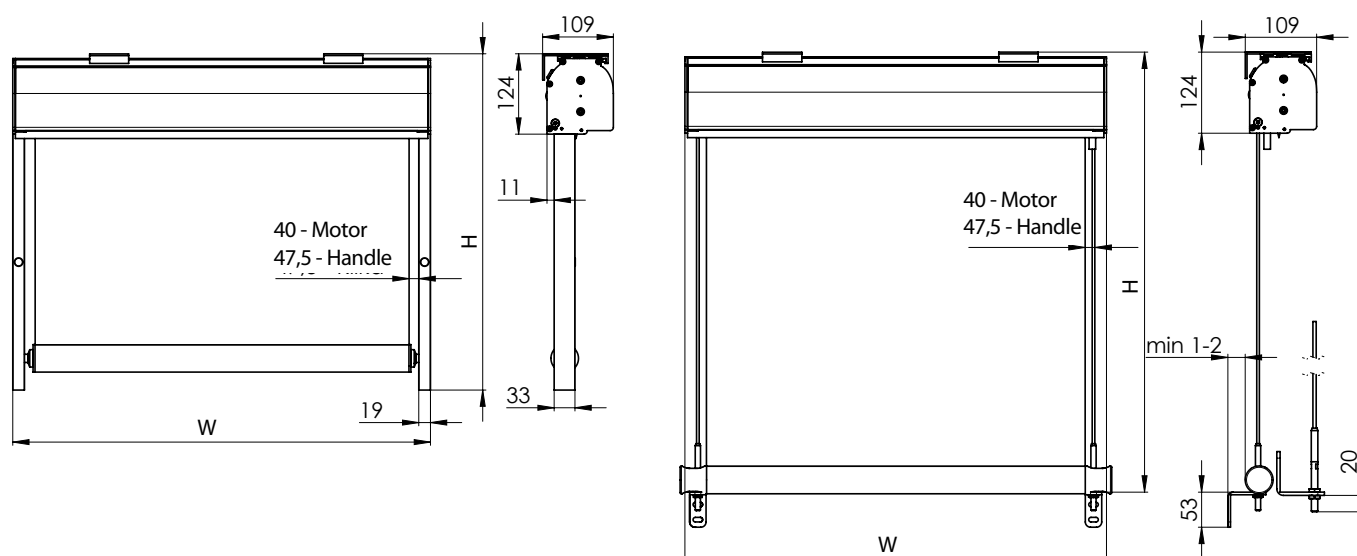
b) attachment in front of an opening:

As a rule, indicate the width of the opening which is to be shaded in the order form.

Dimensions outside the stipulated limits must be consulted with the manufacturer.

#### H ..... height (mm)

Measure the overall height including the roller blind upper section and holder.



Dimensions outside the stipulated limits must also be consulted with the manufacturer.

More information in the separate document **Measurement and assembly instructions**.

## SCREEN GW

### Assembly

#### Assembly

Assembly works must be carried out solely by qualified personnel capable of adhering to all instructions stated below with full consideration of their safety and that of all other persons.

The main activities include:

- 1) preparation of walls, ceilings, windows or other structures for the assembly of roller blinds while using portable drills and screwdrivers;
- 2) roller blind assembly to a wall or ceiling;
- 3) connection to power mains;
- 4) adjustment (of end stops / end switches, etc.) and testing of the roller blind

#### Preparation of roller blind assembly

Prior to installing the roller blind, check whether the surface of the installation place is not damaged and if it is suitable for assembly. Select suitable attachment screws (type and dimensions) corresponding to the type of structure onto which the roller blind is to be installed (wood, cement, brick).

NOTE: Faulty assembly can lead to accidents. Observe instructions for the proper roller blind installation to prevent the risk of separation of the roller blind from a wall or window. ISOTRA a. s. shall not be held responsible for defects caused by faulty assembly.

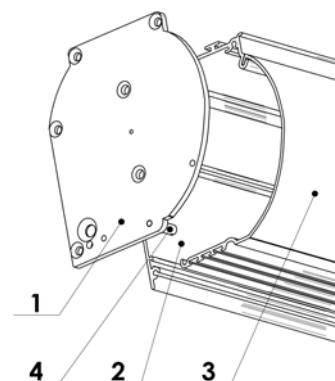
#### Roller blind assembly

The method of assembly depends on the type of the roller blind:

- a) Solid box with cords: first attach the box to a wall or ceiling, then tighten and fix the cords.
  - b) Solid box with the GC20 guide bar: first attach the box to a wall or ceiling, then attach the guide bars.
- Boxes with roller blinds can be installed to a ceiling or front surfaces using special attachment brackets.

#### Upper box assembly

The upper box consists of three parts: side board (1), fixed part (2) and removable part (3). If it is necessary to remove the winding drum, the access to the upper box is possible after removing two screws (4) – one on each side – and removing the removable part of the box.





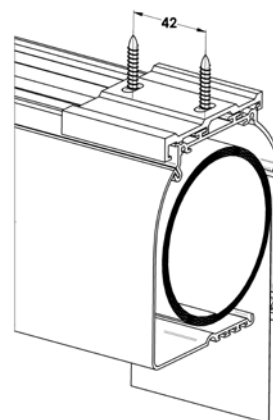
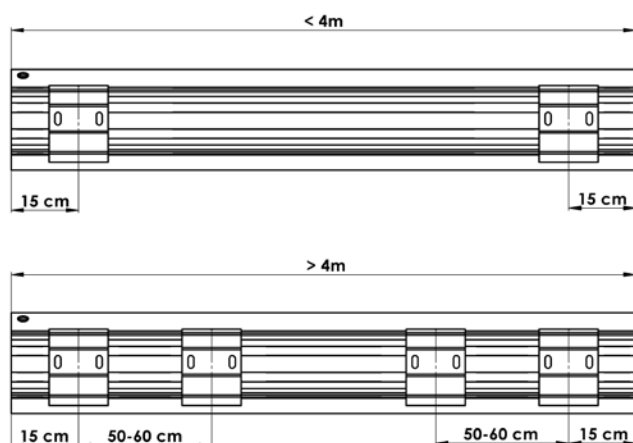
## SCREEN GW

### Assembly

#### Assembly to ceiling

Mark the position of holes to be drilled, considering the following factors:

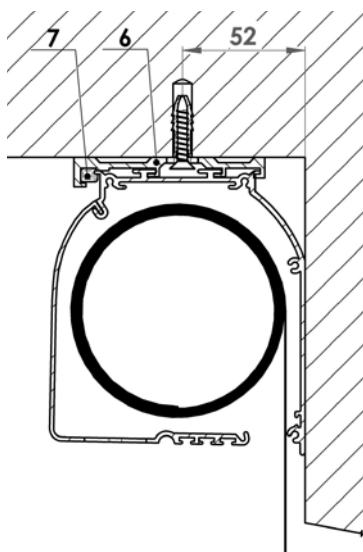
- for upper boxes having the width of max. 4.0 m, two brackets (6) are sufficient which must be installed in a distance of approximately 15–20 cm from each end;
- for wider roller blinds, four brackets (two pairs) are necessary, one in a distance of 15–20 cm from each end and the second in a distance of 20–60 cm from the first one;



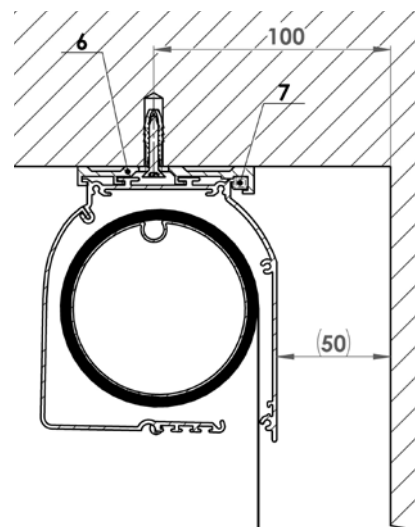
- if possible, the distance from the wall depends on the bracket attachment method, i.e. the position of wedges (7):
  - front wedge: **52 mm**
  - rear wedge: **100 mm**

The following facts must be kept in mind:

- assembly of a bracket with attachment screws / wedges pointing toward the room minimises the distance between the upper box and the rear wall, but the bracket is visible and not visually attractive;
- assembly of a bracket with attachment screws / wedges in the back is more aesthetically desirable, but requires at least 5 cm of space between the back wall and the upper box.



Attach brackets (6) using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, window frame, wall, other material). If four brackets are used, ensure that the brackets are perfectly aligned  $\pm 1$  mm; this can be checked by sliding the box along the cut-outs before tightening the attachment screws.



Insert the upper box to brackets (6) and slide it lengthwise until it is centred within the window wing, and secure with wedges (7).

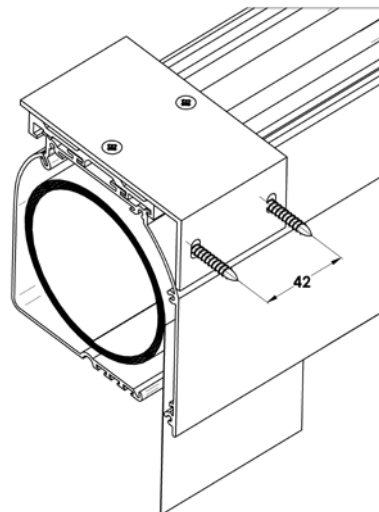
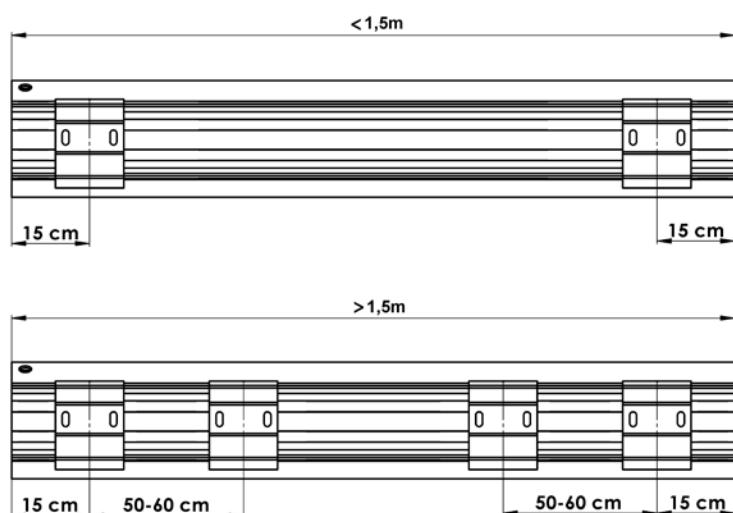


## SCREEN GW

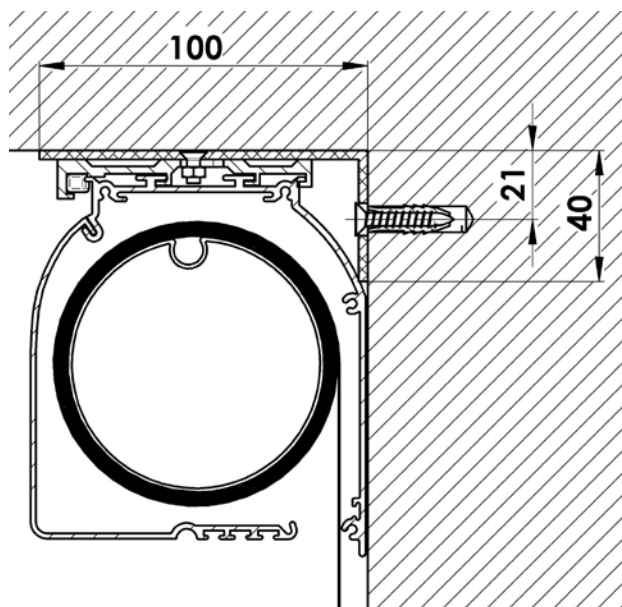
### Assembly

#### Assembly to wall

Mark the position of angle-section brackets and holes to be drilled. For upper boxes having the width of max. 1.5 m, two brackets are sufficient, which must be installed in a distance of approximately 15–20 cm from each end. For wider roller blinds, four brackets (two pairs) are necessary, one in a distance of 15–20 cm from each end and the second in a distance of 20–60 cm from the first one.



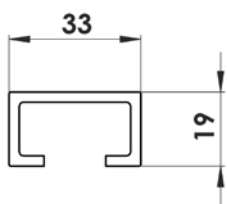
Attach brackets using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, window frame, wall, other material). If four brackets are used, ensure that the brackets are perfectly aligned  $\pm 1\text{ mm}$ ; this can be checked by sliding the box along the cut-outs before tightening the attachment screws. Insert the box to brackets and slide it lengthwise until it is centred within the window wing, and secure with wedges.



## SCREEN GW

### Assembly

#### Assembly of guide rails

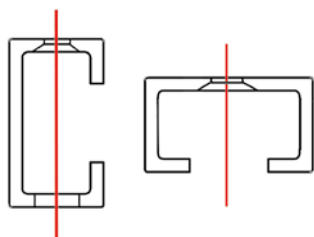


First, attach the box to the ceiling/wall, then install the guide rails.  
For model GW, only one type of guide rails is available – GC20.

The bar is supplied with pre-drilled holes, as per order, from the front or from the side.

#### Placement of holes:

- outer holes are placed approx. 10 cm from the rail edge;
- intermediate holes are placed at approx. each 50–80 cm evenly along the guide rail.

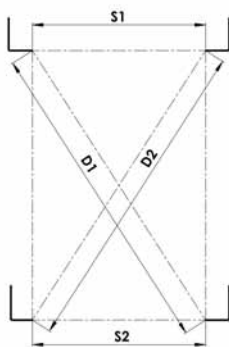


The red line indicates the vertical axis for attachment screws. Use the drilled guide rails as a template for transferring the hole positions to the window wing wall.

Attach the guide bars to the wall using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, cement, brick, etc.).

Once the assembly is finished, check parallelism and rectangularity of the guide bars. This can be done by measuring two distances "S1" and "S2" or diagonals "D1" and "D2". The dimensions must be the same  $\pm 2$  mm. Proper guide bar placement is vital, otherwise the function of the roller blind can be impaired.

For front guide rail assembly, self-adhesive covers are supplied to cover the attachment screw holes.

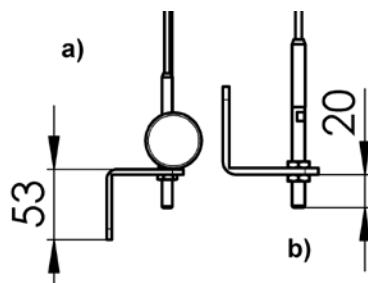


## SCREEN GW

### Assembly

#### Assembly of cords in roller blinds with boxes

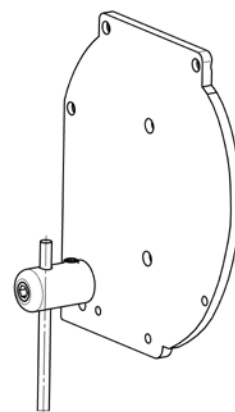
Steel cords  $\varnothing 4$  mm are supplied cut to length with a pre-pressed threaded end piece. The exact cord configuration may vary per specific projects. After attaching the upper box, pass the cord through the attachment roller on the side board and secure with a bolt.



Lower brackets can be installed on the side or front, while the angle section aims down (a) or up (b).

Note: The places for the assembly of the brackets must be selected before ordering the roller blinds, as this position determines the cord length.

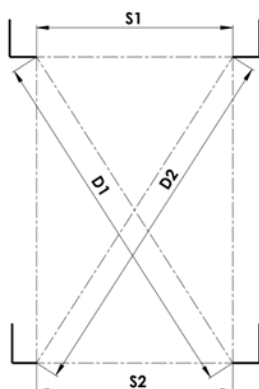
If brackets are installed upwards (b), leave at least 20 mm of space between the bracket and the floor or window sill.



Attach the brackets to the wall using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, cement, brick, etc.). If necessary, increase the bracket distance from the wall by washers. Always tighten the cord and hold it to prevent twisting.

#### NOTE

Check parallelism and rectangularity of the four attachment points. This can be done by measuring two distances "S1" and "S2" or diagonals "D1" and "D2". The dimensions must be the same  $\pm 1$  mm.



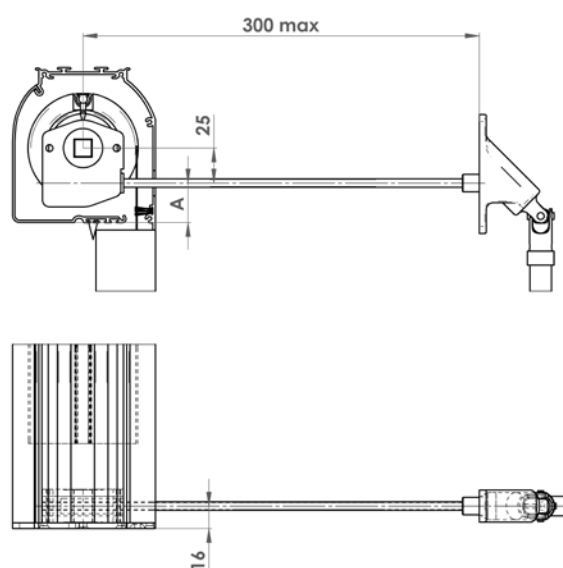
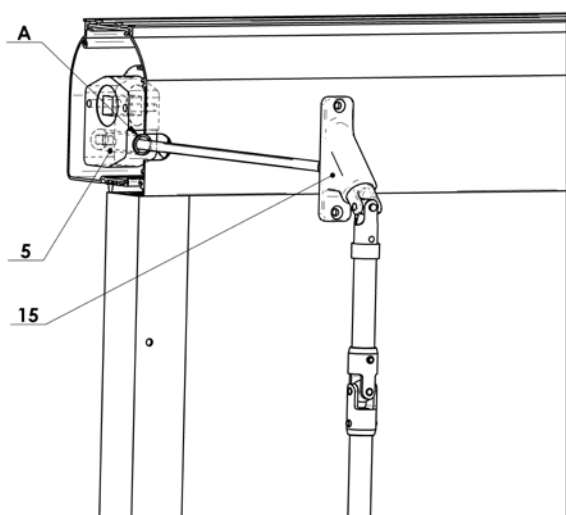
## SCREEN GW

### Assembly

#### Exterior assembly with sleeve passing through wall

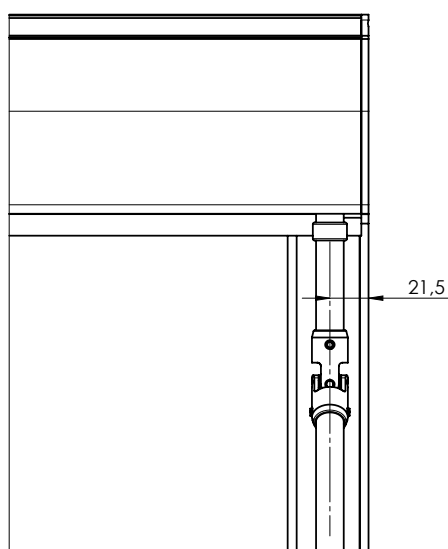
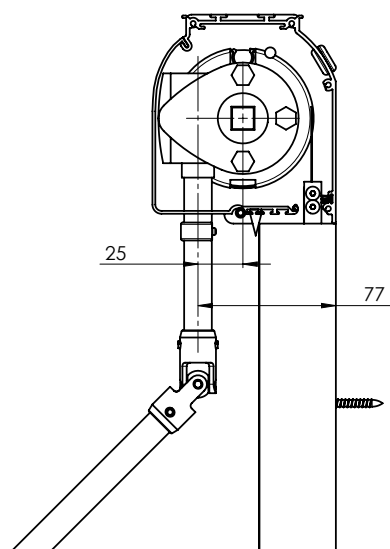
For exterior roller blinds installed with a sleeve passing through a wall and with a crank rod in the interior, it is necessary to calculate the exact position of the hole for a 30-cm angular rod (15).

- Attach the brackets to a wall or ceiling and install the roller blind in its place. Use a pencil to mark the position of the box lower corner on the wall or window frame. Remove the roller blind from the brackets and measure the distance from the box lower corner to the centre of the hole (A) in the rear part of the box (which serves for inserting the angular rod to control the transmission system). Mark the same distance on the wall, thus marking the centre of the hole to be drilled.
- Carefully drill a hole through the wall using an 8-mm drill bit. The hole must be as level as possible.
- Install the roller blind back and insert a sleeve from the interior to check accuracy of the hole position. Then cut the angular rod to size using a hack-saw. The rod size depends on the wall thickness.



Handle – straight option (K)

Handle with roller blind by delivery connected



## SCREEN LITE

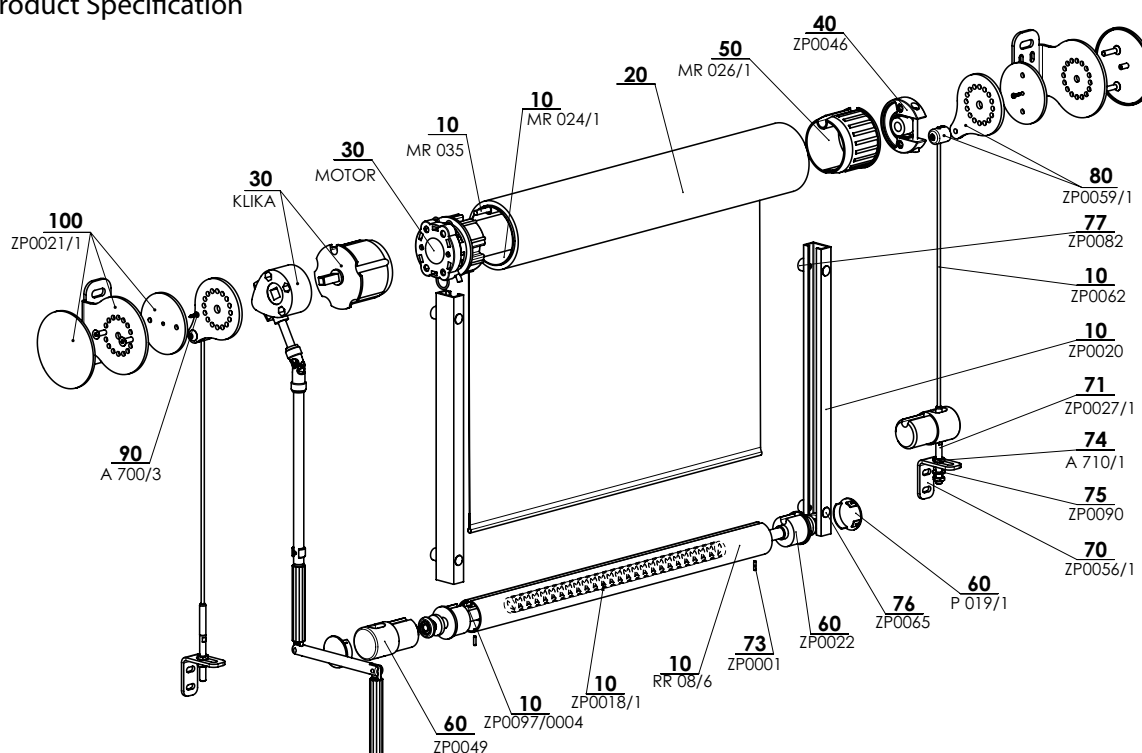


- ▲ Light-weight variant without the cover moulding
- ▲ cost-effective alternative to the SCREEN ZIP and SCREEN GW models
- ▲ screening of both the interior and the exterior areas
- ▲ side guidance by a cable or by a guide rail
- ▲ possibility of electric control,
- ▲ high wind resistance (wind class 3).

**ISOTRA** *Quality*

## SCREEN LITE

### Basic Product Specification



2-01395-0000-A

### Control

Used for lifting and lowering of screen blinds.

**Handle** - the control rod mechanism is led into the interior at an angle from 45 ° to 90 ° using a wall bushing and a hexagonal rod. (Color: grey / eloxal coating)

**Motor** - Optional control using the sun / wind sensor or by a remote control or switch.

### Specification

|                        | Winding Roller                                                                      | Bottom Rail                                                                                                              | Side Guidance                                                                       |        | Assembly                                                                                      |
|------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|
|                        |                                                                                     |                                                                                                                          | Guide Rail                                                                          | Cable  |                                                                                               |
| <b>Commercial Name</b> |                                                                                     | FD 42                                                                                                                    | GC20                                                                                | ZP0062 | into the ceiling (into the window opening)<br>on the wall<br>(in front of the window opening) |
| <b>Dimension (mm)</b>  | Ø 78 mm                                                                             | Ø 42 mm                                                                                                                  | 33x19 mm                                                                            | Ø 4 mm |                                                                                               |
| <b>Material</b>        | Fe                                                                                  | Al                                                                                                                       | Al                                                                                  | Fe     |                                                                                               |
|                        |  |                                       |  |        |                                                                                               |
| <b>Colour</b>          | grey                                                                                | Standard:<br>RAL 9006 light silver<br>RAL 9007 dark silver<br>RAL 7016 anthracite grey<br>Other RAL colors upon request* |                                                                                     | grey   |                                                                                               |

\*except of plastic parts, maximum width 4000 mm

We do not make atypical designs.

### Standard Dimensions

| Version | Width (mm) |      | Height (mm) |      | Guaranteed area (m²) |
|---------|------------|------|-------------|------|----------------------|
|         | min        | max  | min         | max  |                      |
| handle  | 500        | 4000 | 500         | 3800 | 15,2                 |
| motor   | 800        | 4500 | 500         | 4000 | 18                   |



**SCREEN LITE (2-01395-0000)**

| <b>position</b> | <b>item name</b>                                   | <b>business name</b> | <b>drawing number</b>                |
|-----------------|----------------------------------------------------|----------------------|--------------------------------------|
| 10              | Bottom rail Al - FD 42 raw                         | RR 08/6              | 6-009147-0000                        |
| 10              | Rounded weight steel                               | ZP0018/1             | 3-02880-PU27                         |
| 10              | Plastic rod 4,0 mm PVC                             | ZP0097/0004          | 6-016911-0004                        |
| 10              | Winding roller for awnings dia. 78 mm - 6 m        | MR 024/1             | 6-011084-0078                        |
| 10              | Plastic bar PVC 6,0 mm                             | ZP0097/0006          | 6-016911-0006                        |
| 10              | Steel wire 4mm                                     | ZP0062               | 6-011492-0000                        |
| 10              | Guide channel GC20 raw                             | ZP0020               | 6-008727-0000                        |
| <b>20</b>       | <b>Screen fabric</b>                               |                      | <b>see Sampler of Screen fabrics</b> |
| <b>30</b>       | <b>Motor (SOMFY, BECKER) screen</b>                |                      | <b>see Control</b>                   |
| <b>30</b>       | <b>Transmission + handle for screen</b>            |                      | <b>see Control</b>                   |
| 40              | Set for motor: AL holder with case                 | ZP0046               | 6-009209-0000                        |
| 50              | Roller cover dia. 78mm with pin                    | MR 026/1             | 6-011086-0078                        |
| 60              | Bottom rail end cup FD 42                          | ZP0022               | 6-008736-0030                        |
| 60              | Black end cup screen                               | ZP0049               | 3-02208-9004                         |
| 60              | Guide channel cover dia. 40                        | P 019/1              | 3-01849-9006                         |
| 70              | Tensioning wire angle - stainless steel, unpainted | ZP0056/1             | 3-02431-0000                         |
| 71              | Tensioning screw                                   | ZP0027/1             | 3-02430-0000                         |
| 73              | Spring pin 3x12 DIN 7346                           | ZP0001               | 6-009807-0000                        |
| 74              | Low nut M8 stainless DIN 439B A2                   | A 710/1              | 6-010705-0000                        |
| 75              | Pad M8, DIN 125-A1, A2                             | ZP0090               | 6-009997-0002                        |
| 76              | Self-adhesive cover 606-172-13 silver RAL9006      | ZP0065               | 6-011520-0000                        |
| 77              | Mounting pad - guide channel GC20                  | ZP0082               | 7-302422-0000                        |
| 80              | Wire holder for round console - set + couple RAL   | ZP0059/1             | 2-01009-PU11                         |
| 90              | Cover locking screw M4                             | A 700/3              | 7-303030-0000                        |
| 100             | Round console - set + couple RAL                   | ZP0021/1             | 2-01002-PU11                         |

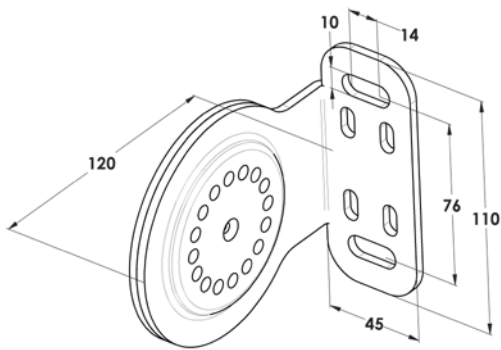


## SCREEN LITE

### Technical Specification

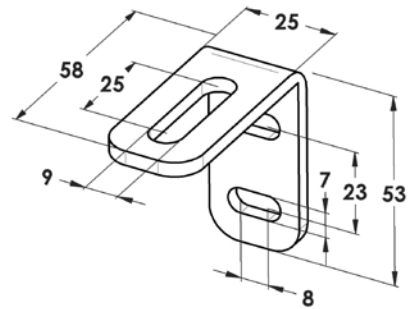
#### Rail

(2-01002)



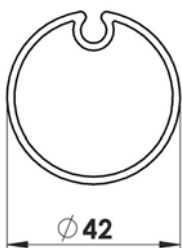
#### Bracket for steel wire

(3-02431) - stainless steel, unpainted



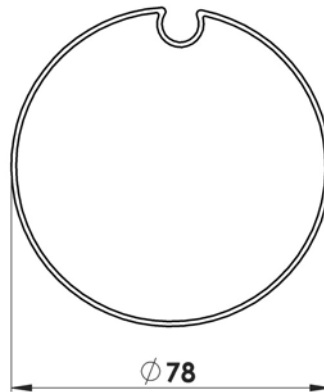
#### Bottom Rail FD 42

(RR 08/6, 6-009147)



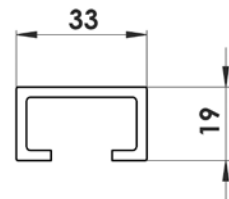
#### Winding roller

(6-011084)

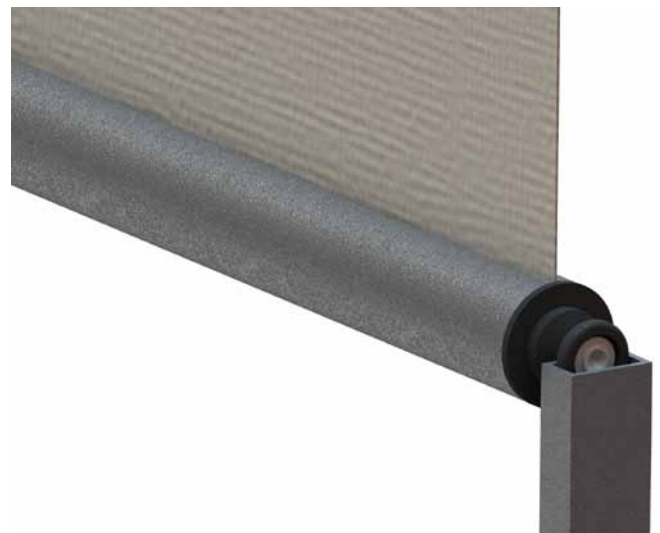
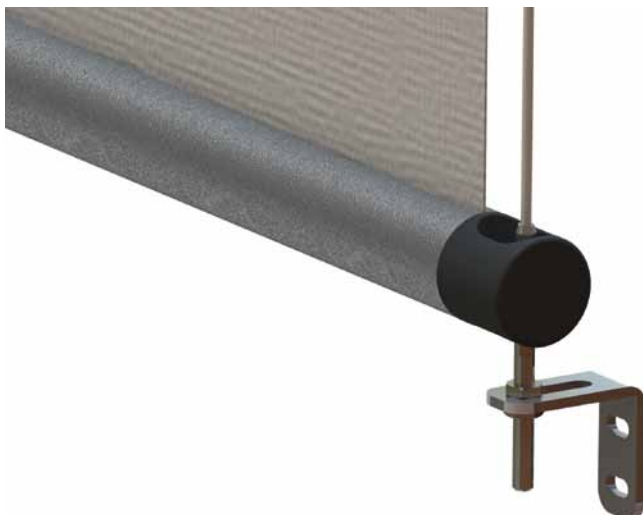


#### Guide rail GC 20

(6-008727)



### Design variants



## SCREEN LITE

### Measurement Manual

### Measurement Manual

The SCREEN LITE roller blinds can be placed into an opening or in front of it, and attached to the ceiling or wall.

The screen roller blind width and height shall be measured as follows:

#### W ..... width (mm)

a) attachment into an opening:

Measure the actual opening width in three points, indicate the lowest dimension measured in the order form.

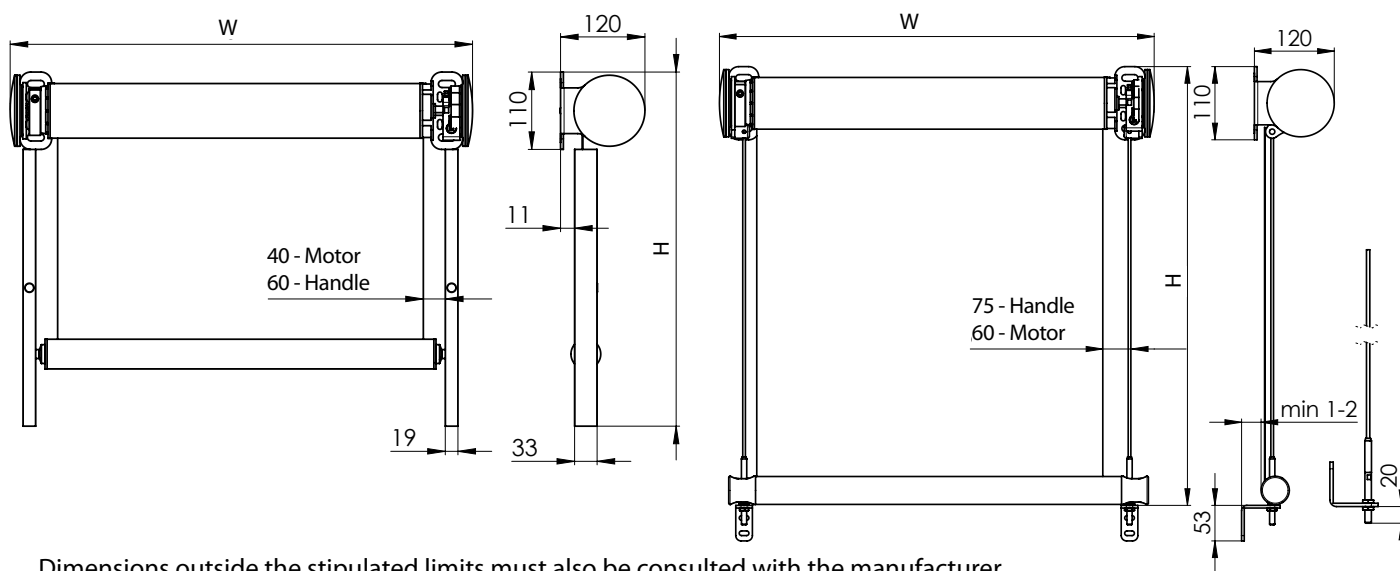
b) attachment in front of an opening:

As a rule, indicate the width of the opening which is to be shaded in the order form.

Dimensions outside the stipulated limits must be consulted with the manufacturer.

#### H ..... height (mm)

Measure the overall height including the roller blind upper section and holder.



Dimensions outside the stipulated limits must also be consulted with the manufacturer.

More information in the separate document **Measurement and assembly instructions**.

### Assembly

Assembly works must be carried out solely by qualified personnel capable of adhering to all instructions stated below with full consideration of their safety and that of all other persons.

The main activities include:

- 1) preparation of walls, ceilings, windows or other structures for the installation of roller blinds while using portable drills and screwdrivers;
- 2) roller blind assembly to a wall or ceiling;
- 3) connection to power mains;
- 4) adjustment (of end stops / end switches, etc.) and testing of the roller blind.

### Preparation of roller blind assembly

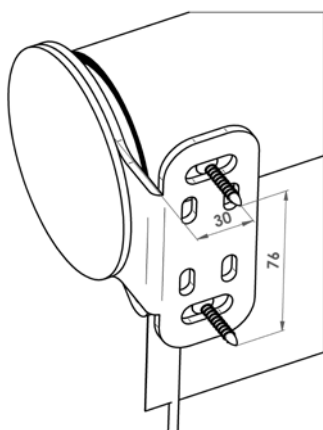
Prior to installing the roller blind, check whether the surface of the assembly place is not damaged and if it is suitable for installation. Select suitable attachment screws (type and dimensions) corresponding to the type of structure onto which the roller blind is to be installed (wood, cement, brick).

NOTE: Faulty installation can lead to accidents. Observe instructions for the proper roller blind assembly to prevent the risk of separation of the roller blind from a wall or window. ISOTRA a. s. shall not be held responsible for defects caused by faulty assembly.

## SCREEN LITE

### Assembly

#### Roller blind assembly to ceiling or wall

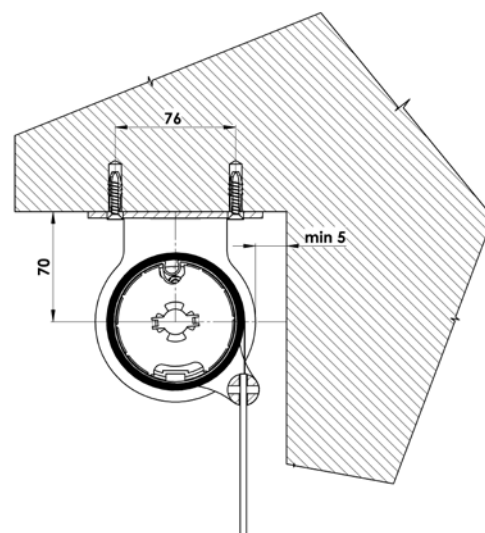


Start the screen roller blind assembly to the ceiling by marking out the attachment holes of the supporting brackets.

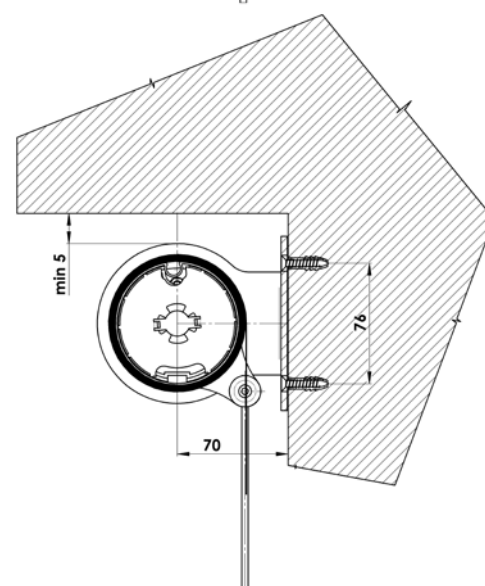
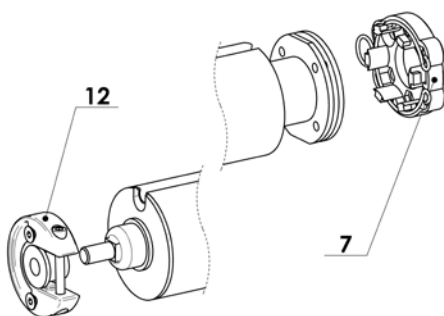
The distance of the screws from the roller blind edge should be 30 mm. The screw spacing is 76 mm.

Leave a gap of at least 5 mm between the wall or ceiling and the supporting bracket, as shown in the picture.

You can check the accuracy of marking before drilling by placing the roller blind in assembled condition. Drill the holes and attach the supporting brackets. Mount and secure the roller blind rolling unit to the attached brackets.



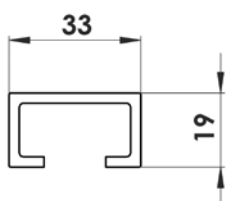
The rolling unit is to be seated at the motor side to HiPro clamp (7) and secured by a lock, while, on the opposite side, the unit is inserted in plastic housing (12) and secured by a screw.



## SCREEN LITE

### Assembly

#### Assembly of guide bars

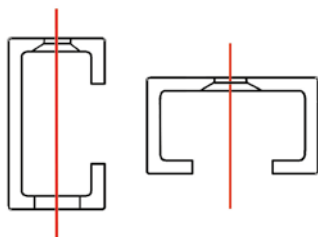


First, attach the box to the ceiling/wall, then install the guide rails. For model SCREEN LITE, only one type of guide rails is available – GC20. The bar is supplied with pre-drilled holes, as per order, from the front or from the side.

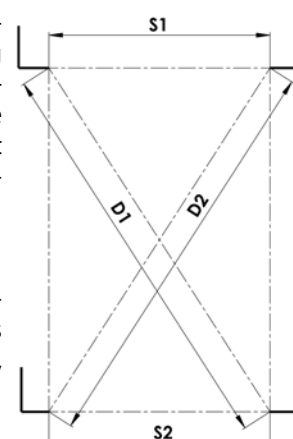
Placement of holes:

- outer holes are placed approx. 10 cm from the rail edge;
- intermediate holes are placed at approx. each 50–80 cm evenly along the guide rail.

The red line indicates the vertical axis for attachment screws. Use the drilled guide bars as a template for transferring the hole positions to the window wing wall. Attach the guide bars to the wall using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, cement, brick, etc.). For front guide bar installation, self-adhesive covers are supplied to cover the attachment screw holes.



Once the installation is finished, check parallelism and rectangularity of the guide bars. This can be done by measuring two distances "S1" and "S2" or diagonals "D1" and "D2". The dimensions must be the same  $\pm 2$  mm. Proper guide bar placement is vital, otherwise the function of the roller blind can be impaired.

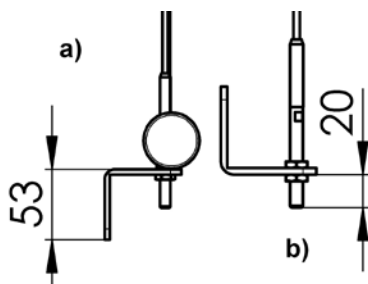


## SCREEN LITE

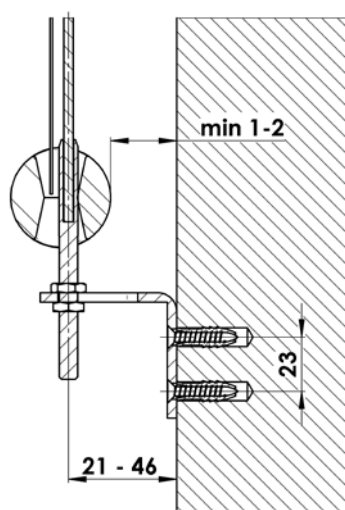
### Assembly

#### Assembly of cords in roller blinds without boxes

Steel cords  $\varnothing$  4 mm are supplied cut to length with a pre-pressed threaded end piece. The exact cord configuration may vary per specific projects. After attaching the upper box, pass the cord through the attachment roller on the side board and secure with a bolt.



floor or window sill.



Lower brackets can be installed on the side or front, while the angle section aims down (a) or up (b).

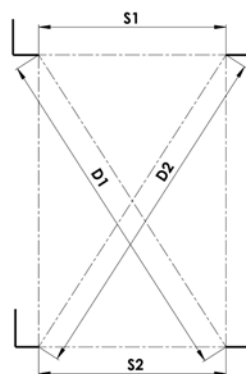
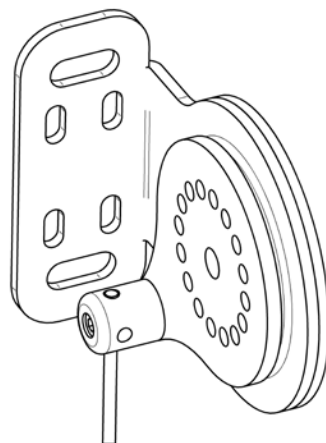
Note: The places for the installation of the brackets must be selected before ordering the roller blinds, as this position determines the cord length.

If brackets are installed upwards (b), leave at least 20 mm of space between the bracket and the

Attach the brackets to the wall using screws and components suitable for the type of structure onto which they are to be attached (metallic structure, cement, brick, etc.). A gap of 1–2 mm should be left between the lower section and the wall/window to prevent mutual damage during operation. If necessary, increase the bracket distance from the wall by washers. Always tighten the cord and hold it to prevent twisting.

#### NOTE

Check parallelism and rectangularity of the four attachment points. This can be done by measuring two distances "S1" and "S2" or diagonals "D1" and "D2". The dimensions must be the same  $\pm 1$  mm.



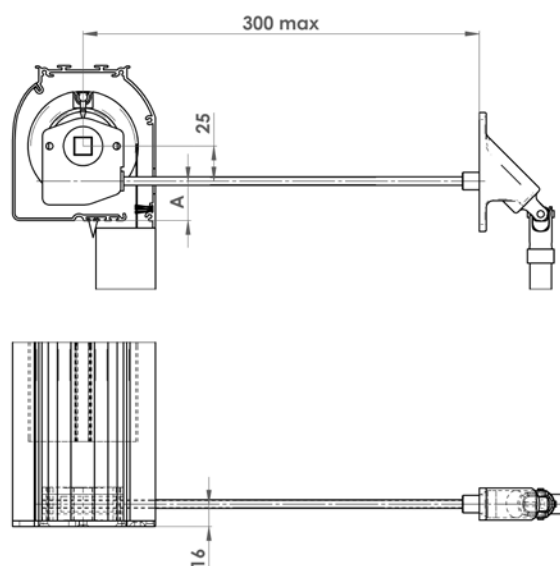
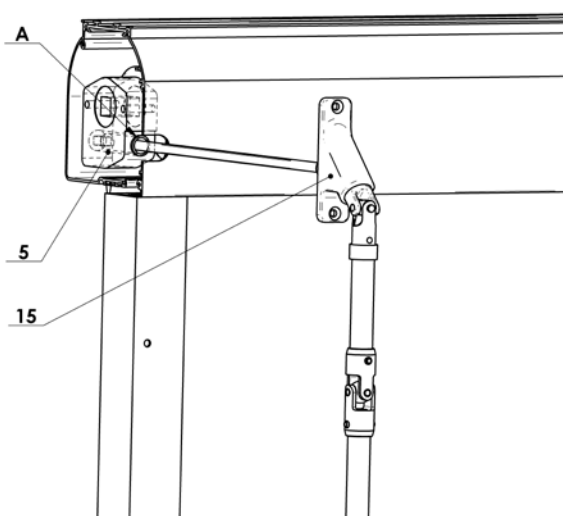
## SCREEN LITE

### Assembly

#### Exterior assembly with sleeve passing through wall

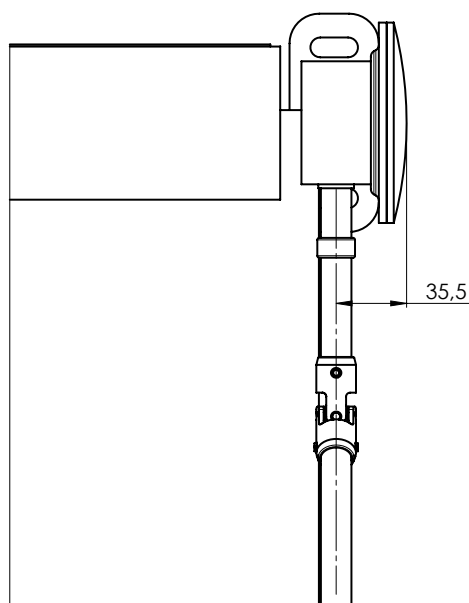
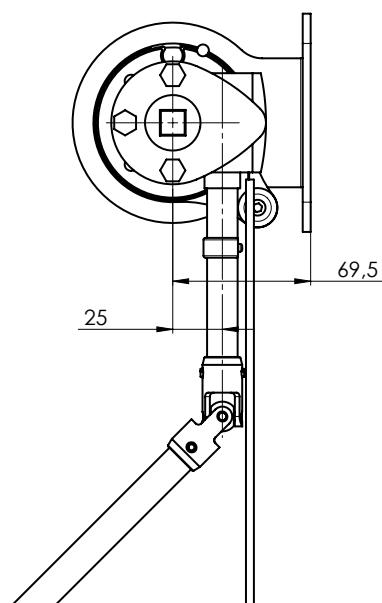
For exterior roller blinds installed with a sleeve passing through a wall and with a crank rod in the interior, it is necessary to calculate the exact position of the hole for a 30-cm angular rod (15).

- Attach the brackets to a wall or ceiling and install the roller blind in its place. Use a pencil to mark the position of the box lower corner on the wall or window frame. Remove the roller blind from the brackets and measure the distance from the box lower corner to the centre of the hole (A) in the rear part of the box (which serves for inserting the angular rod to control the transmission system). Mark the same distance on the wall, thus marking the centre of the hole to be drilled.
- Carefully drill a hole through the wall using an 8-mm drill bit. The hole must be as level as possible.
- Install the roller blind back and insert a sleeve from the interior to check accuracy of the hole position. Then cut the angular rod to size using a hack-saw. The rod size depends on the wall thickness.



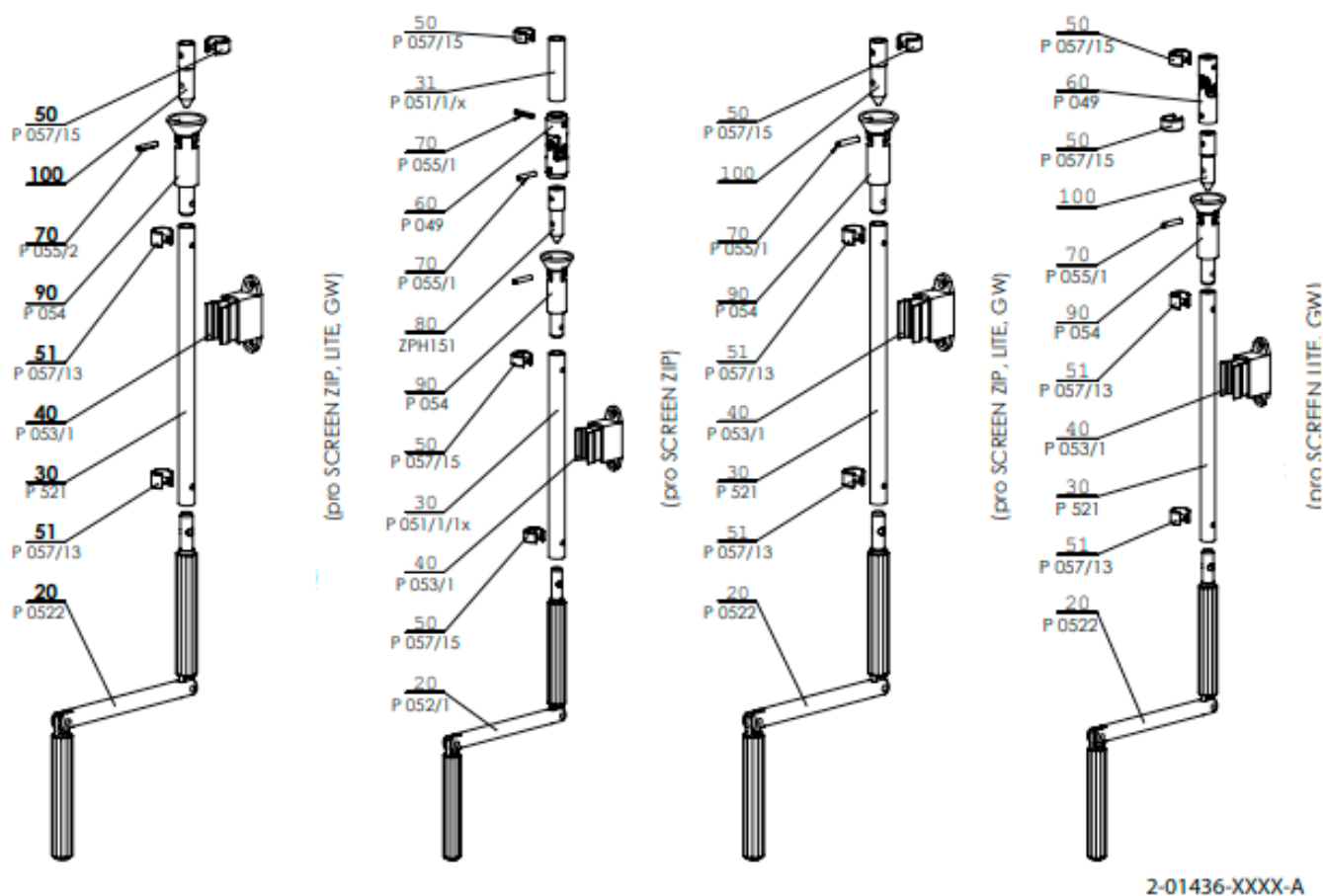
Handle – straight option (K)

Handle with roller blind by delivery connected



## SCREEN ZIP, GW, LITE

### Control - Handle

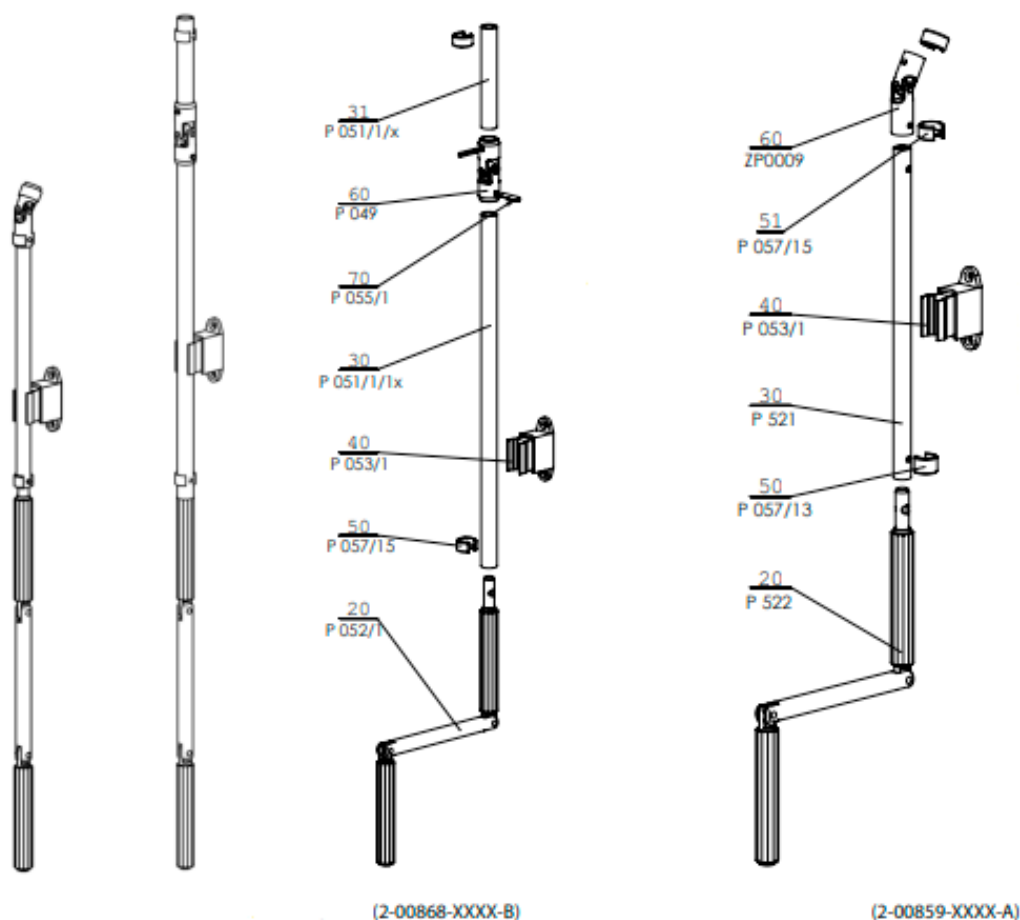


### Handle removable for SCREEN (2-01436-XXXX-0)

| position | item name                           | business name | drawing number |
|----------|-------------------------------------|---------------|----------------|
| 20       | Cranked handle Al – dia 12 mm grey  | P 052/1       | 6-006682-0000  |
| 20       | Cranked handle Al – dia 10 mm grey  | P 522         | 6-001255-0000  |
| 30,31    | Connecting tube Al – dia 15 mm elox | P 051/1/X     | 7-301797-PU52  |
| 30       | Connecting tube Al – dia13 mm elox  | P 521         | 6-001254-0000  |
| 40       | Handle holder– universal grey       | P 053/1       | 6-006683-7045  |
| 50       | Locking ring with pin 15 mm grey    | P 057/15      | 6-006467-7035  |
| 53       | Locking ring with pin 13 mm grey    | P 057/13      | 6-006468-7035  |
| 60       | Tube joint 15 mm                    | P 049         | 6-001182-0000  |
| 70       | Pivot elastic 4x22 Din 1481         | P 055/1       | 6-004581-0000  |
| 80       | Adaptation – kargan                 | ZPH151        | 6-014318-0000  |
| 90       | Handle funnle square                | P 054         | 6-001190-0000  |
| 100      | Pin for handle                      |               | 3-03287-0000   |

## SCREEN ZIP

### Control - Handle



#### Handle for SCREEN ZIP (2-00868-XXXX-B)

| position | item name                           | business name | drawing number |
|----------|-------------------------------------|---------------|----------------|
| 20       | Cranked handle Al – dia 12 mm grey  | P 052/1       | 6-006682-0000  |
| 30,31    | Connecting tube Al – dia 15 mm elox | P 051/1/X     | 7-301797-PU52  |
| 40       | Handle holder – universal grey      | P 053/1       | 6-006683-7045  |
| 50       | Locking ring with pin 15 mm grey    | P 057/15      | 6-006467-7035  |
| 60       | Tube joint 15 mm                    | P 049         | 6-001182-0000  |
| 70       | Pivot elastic 4x22 Din 1481         | P 055/1       | 6-004581-0000  |

#### Handle for SCREEN GW, LITE (2-00859-XXXX-A)

| position | item name                           | business name | drawing number |
|----------|-------------------------------------|---------------|----------------|
| 20       | Cranked handle Al – dia 10 mm grey  | P 522         | 6-001255-0000  |
| 30       | Connecting tube Al – dia 13 mm elox | P 521         | 6-001254-0000  |
| 40       | Handle holder – universal grey      | P 053/1       | 6-006683-7045  |
| 50       | Locking ring with pin 13 mm grey    | P 057/13      | 6-006468-7035  |
| 51       | Locking ring with pin 15 mm grey    | P 057/15      | 6-006467-7035  |
| 60       | Cross handle crank 13 mm            | ZP0009        | 6-009181-0000  |
| 70       | Pivot elastic 4x22 Din 1481         | P 055/1       | 6-004581-0000  |

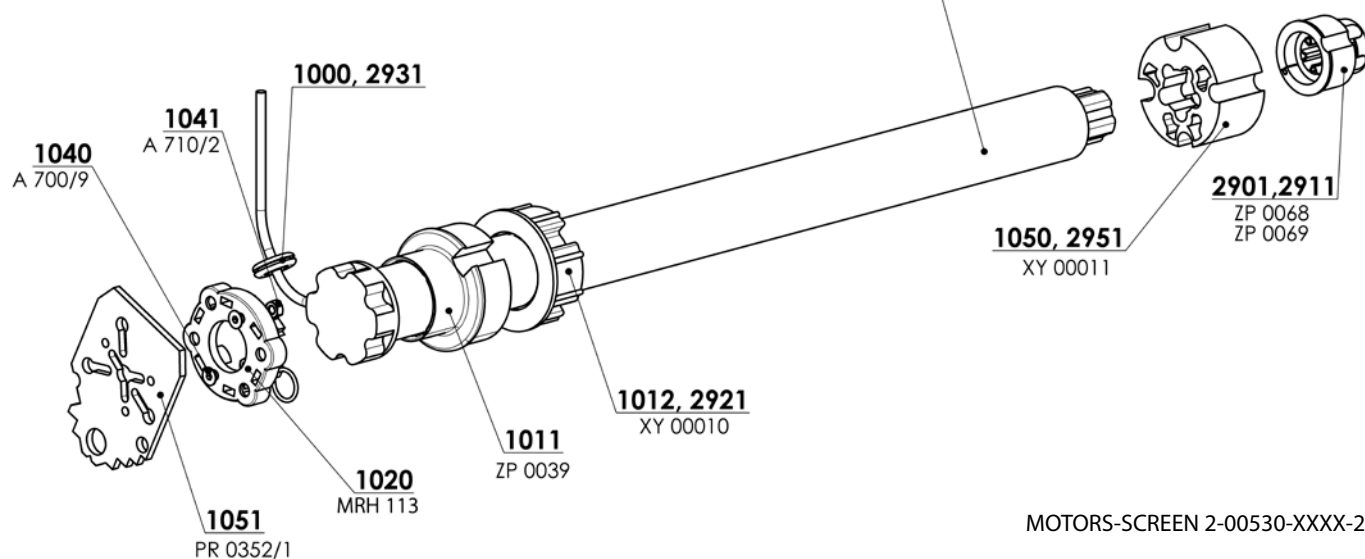


**SCREEN ZIP, ZIP ECONOMY, GW, LITE**

Control - Motor

**30, 101 - 803, 2501 - 2601**

MOTOR



MOTORS-SCREEN 2-00530-XXXX-2

| position | item name                             | business name | drawing number |
|----------|---------------------------------------|---------------|----------------|
| 1        | Motor ALTUS 50 RTS 06/17              | MR 091/06     | 6-011170-0006  |
| 102      | Motor ALTUS 50 RTS 10/17              | MR 091/10     | 6-011170-0010  |
| 103      | Motor ALTUS 50 RTS 15/17              | MR 091/15     | 6-011170-0015  |
| 201      | Motor Sunea 50 Screen io 06/17        | ZP0084        | 6-012559-0617  |
| 202      | Motor Sunea 50 Screen io 10/17        | ZP0085        | 6-012559-1017  |
| 203      | Motor Sunea 50 Screen io 15/17        | ZP0086        | 6-012559-1517  |
| 301      | Motor MAESTRIA +50 IO 06/17 VVF5M     | ZP0084/1      | 6-012538-0617  |
| 302      | Motor MAESTRIA +50 IO 10/17 VVF5M     | ZP0085/1      | 6-012538-1017  |
| 303      | Motor MAESTRIA +50 IO 15/17 VVF5M     | ZP0086/1      | 6-012538-1517  |
| 401      | Motor MAESTRIA WT+50 WT 06/17         | ZP0093/06     | 6-015258-0617  |
| 402      | Motor MAESTRIA WT+50 WT 10/17         | ZP0093/10     | 6-015258-1017  |
| 403      | Motor MAESTRIA WT+50 WT 15/17         | ZP0093/15     | 6-015258-1517  |
| 1011     | Motor adaptor dia. 78 ZIP             | ZP0039        | 6-3-03084-0000 |
| 1020     | Motor bracket                         | MRH 113       | 6-013871-0000  |
| 1040     | Screw inbus M6x12 Zn DIN 7991         | A 700/9       | 6-003511-0000  |
| 1041     | Nut M6 DIN 934, 8,8, Zn               | A 710/2       | 6-003188-0005  |
| 1050     | Driver LT50 for DS78                  | XY 00011      | 6-009120-0002  |
| 1051     | Screen motor bracket                  | PR0352/1      | 3-02962-0000   |
| 1052     | Screw M5x16 Zn DIN 965-H, 4,8 - cross | A 700/10      | 6-003595-0000  |
| 1053     | Screw inbus M6x22 A2 DIN 7991         |               | 6-013675-0000  |
| 2901     | Reduction LS40/LT50                   | ZP0068        | 6-001594-0000  |
| 2911     | Reduction of drive head LS40/LT50     | ZP0069        | 6-001595-0000  |
| 2921     | Adaptor LT50 for DS78                 | XY 00010      | 6-009120-0001  |
| 2931     | Rubber cable, plastic, black          |               | 6-017078-0000  |

**Motors (Becker)** (6-015258 / 6-012538 / 6-002624 / 6-014483)

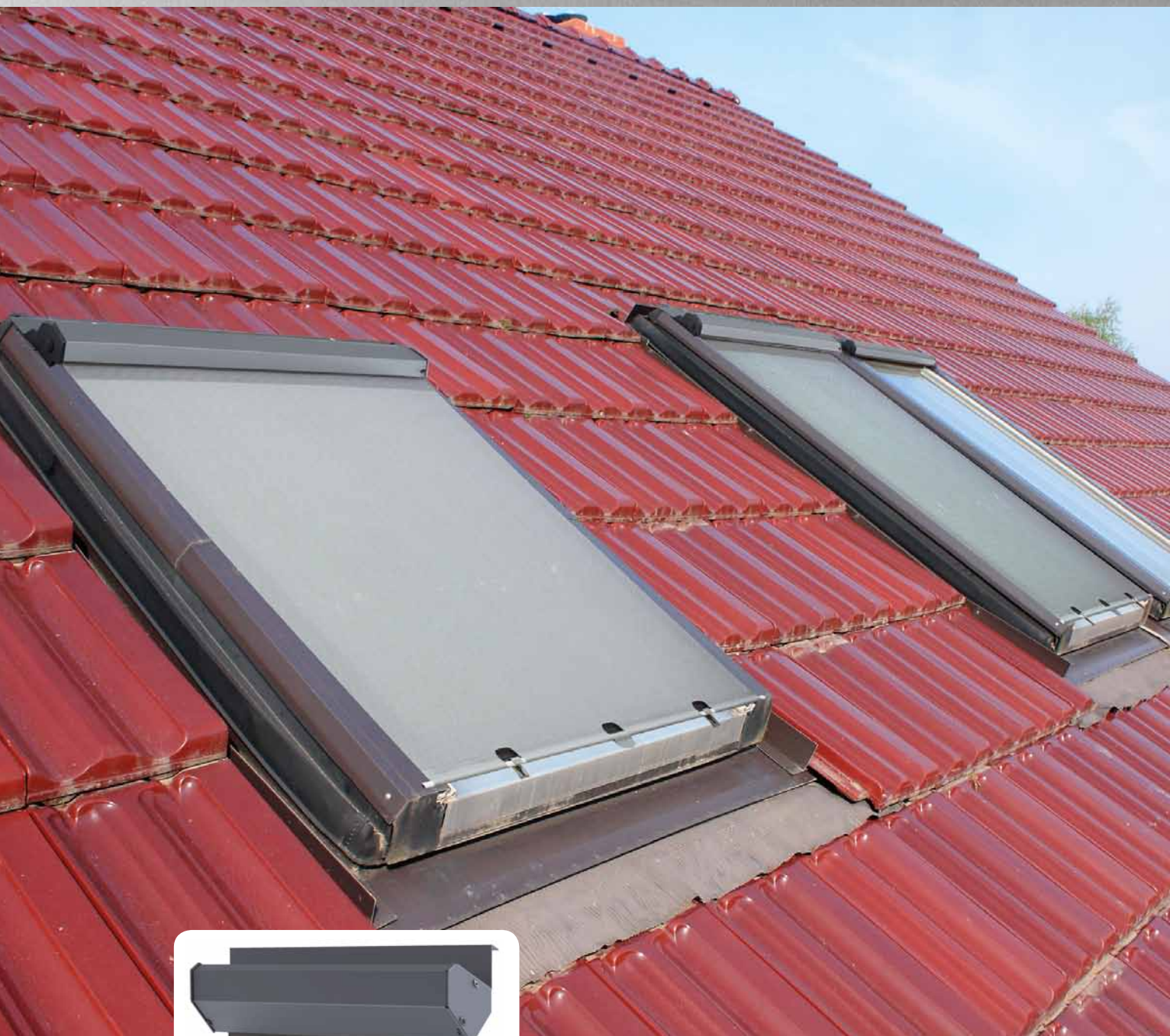
| position | item name                           | business name  | drawing number |
|----------|-------------------------------------|----------------|----------------|
| 30       | Motor BECKER 50 E 08/17             | X.2010/1301590 | 6-017861-0008  |
| 30       | Motor BECKER 50 E 12/17             | X.2010/1301600 | 6-017861-0012  |
| 30       | Motor BECKER 50 E 20/17             | X.2010/1301450 | 6-017861-0020  |
| 500      | Motor BECKER 50 Screen C 08/17 PLUS | X.2010/1302170 | 6-018761-0008  |
| 500      | Motor BECKER 50 Screen C 12/17 PLUS | X.2010/1302180 | 6-018761-0012  |
| 500      | Motor BECKER 50 Screen C 20/17 PLUS | X.2020/1301860 | 6-018761-0020  |

\*Note: E=electronic motor / C=radio motor

**Motors (ISOTRA BASIC) SCREEN ZIP, GW, LITE, ZIP ECONOMY**

| position | item name                                                     | business name | drawing number |
|----------|---------------------------------------------------------------|---------------|----------------|
| 600      | Motor ISOTRA BASIC, 10Nm/17, with integrated receiver, SC zip | X.AM45 10/17S | 6-019173-0010  |
| 600      | Motor ISOTRA BASIC, 15Nm/17, with integrated receiver, SC zip | X.AM45 15/17S | 6-019173-0015  |
| 600      | Motor ISOTRA BASIC, 20Nm/17, with integrated receiver, SC zip | X.AM45 20/17S | 6-019173-0020  |

## SCREEN SKY

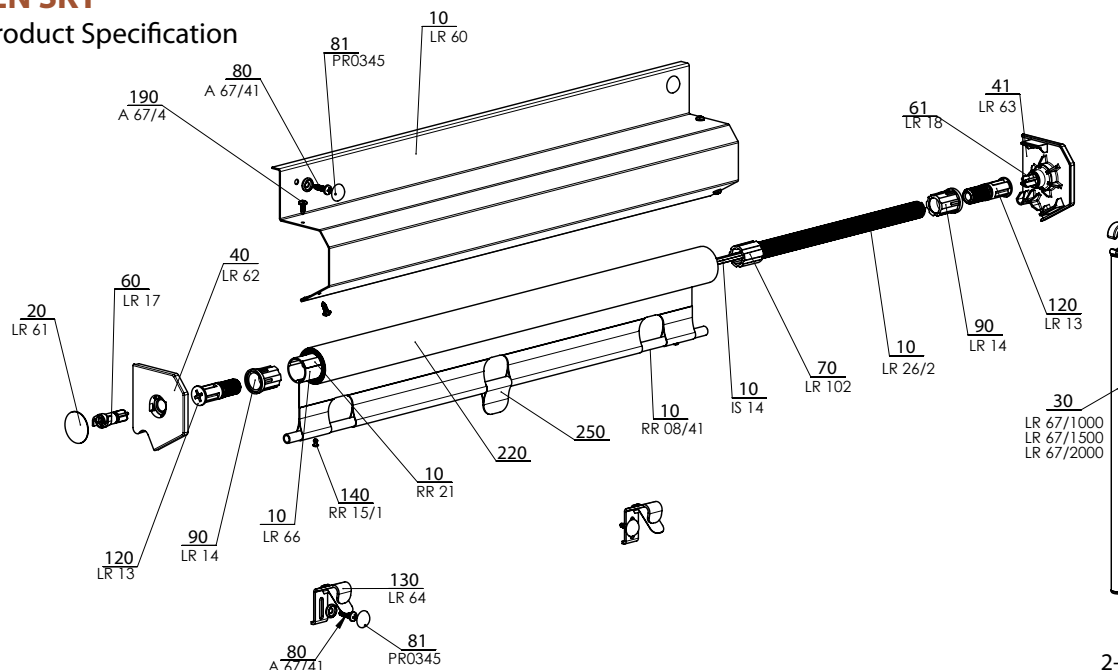


- ▲ Effective protection from light and heat radiation,
- ▲ protection against weather and outside noise,
- ▲ full functionality in any position of the casement,
- ▲ wide selection of fabrics with various levels of light transmittance,
- ▲ wind class 2.

**ISOTRA***Quality*

## SCREEN SKY

### Basic Product Specification



#### Control

Manual - Used for lifting and lowering of screen sky blinds.

2-01013-XXXX-B

#### Specification

|                        | Cover Profile                                                                                                                                                                                       | Winding Roller | Assembly                                                                                                                  |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Commercial Name</b> | LR 60                                                                                                                                                                                               | RR 15/1        | The ISOTRA SCREEN SKY roof roller blind is installed by attaching the box to the flashing of the roof window upper frame. |
| <b>Dimension (mm)</b>  |                                                                                                                                                                                                     | Ø 22 mm        |                                                                                                                           |
| <b>Material</b>        | Al                                                                                                                                                                                                  | Al             |                                                                                                                           |
|                        |                                                                                                                                                                                                     |                |                                                                                                                           |
| <b>Colour</b>          | Standard:<br>RAL 9006 light silver<br>RAL 9007 dark silver<br>RAL 9010 white<br>RAL 7016 anthracite grey<br>RAL 7016S anthracite grey structure<br>RAL 8014 brown<br>Other RAL colors upon request* | Grey           |                                                                                                                           |

\* except of plastic parts.

We do not make atypical designs.

#### Standard Dimensions

| Version | Width (mm) |      | Height (mm) |      | Guaranteed area (m <sup>2</sup> ) |
|---------|------------|------|-------------|------|-----------------------------------|
|         | min        | max  | min         | max  |                                   |
| handle  | 400        | 1200 | 500         | 1600 | 1,9                               |

#### Note:

For the roof type of screen roller shutters, the opaque layer is always directed towards the sun. If installed outdoors, strong winds may cause slight lifting of the lower profile and fabric. The lower profile, or the pull bar, is secured by hooks when the roller shutter is pulled.

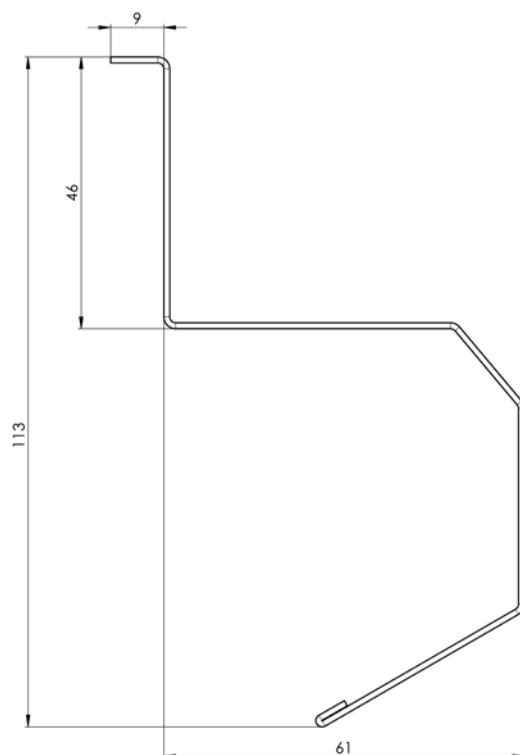
#### Common phenomena of technical fabrics

The fabric may curl around the welds or in the middle of the fabric, it is the so-called tree effect. This phenomenon is common because different forces act on the fabric during use. Another phenomenon may be visible bruises on the fabric caused by the roller. These disappear at higher temperatures when the fabric levels.



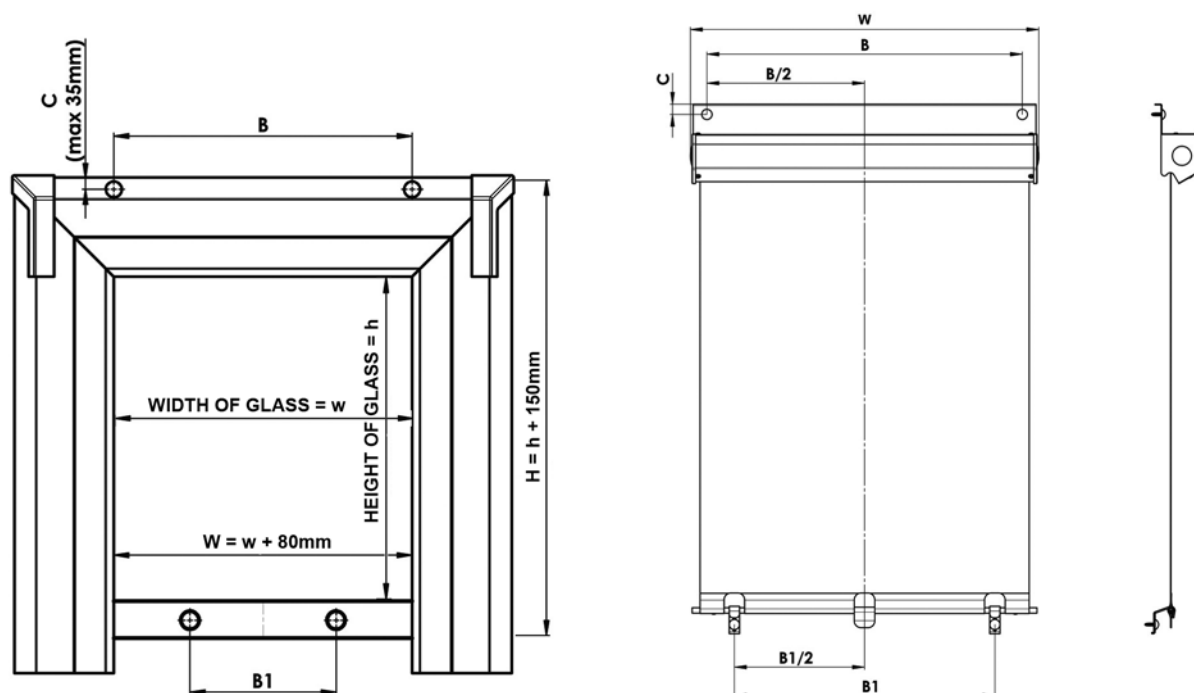
## Screen Sky (2-01013-0000)

| position   | item name                                  | business name | drawing number                       |
|------------|--------------------------------------------|---------------|--------------------------------------|
| <b>10</b>  | <b>Profiles - SCREEN - SKY</b>             |               | <b>see Profiles</b>                  |
| 10/1       | Screen cover - S                           | LR 60         | 3-02443-0000                         |
| 10/30      | Al tube (D/N) Al - elox                    | RR 08/41      | 6-011163-PU52                        |
| 10/102     | Spring, left l=600/1,3                     | LR 26/2       | 7-301254-0000                        |
| 10/110     | Tilt rod - triangular                      | IS 14         | 7-300050-0000                        |
| 10/120     | Adhesive tape, double DC 5011 LOHM.        | RR 21         | 6-001311-0000                        |
| 20         | Tightener cover                            | LR 61 XXXX    | 7-302489-0000                        |
| 30         | Control rod for Screen SKY - 1000 mm       | LR 67/1000    | 2-01400-1000                         |
| 30         | Control rod for Screen SKY - 1500 mm       | LR 67/1500    | 2-01400-1500                         |
| 30         | Control rod for Screen SKY - 2000 mm       | LR 67/2000    | 2-01400-2000                         |
| 40         | Plastic side cap - right                   | LR 62 XXXX    | 3-02487-XXXX                         |
| 41         | Plastic side cap - left                    | LR 63 XXXX    | 3-02488-XXXX                         |
| 60         | Roller pin - right                         | LR 17         | 3-00609-0000                         |
| 61         | Roller pin - left                          | LR 18         | 3-00610-0000                         |
| 70         | Screw                                      | LR 102        | 3-01203-0000                         |
| 80         | Self-tapping screw ST 4,2x16               | A 67/4        | 6-012661-0000                        |
| 81         | wo-part screw cover PVC - black/brown/grey | PR0345/XX     | 6-002073-XXXX                        |
| 90         | Box                                        | LR 14         | 3-00650-0000                         |
| 120        | Spring pin                                 | LR 13         | 3-00608-0000                         |
| 130        | Hook                                       | LR 64         | 7-302447-0000                        |
| 140        | Rivet 4x6 DIN 7337 A,                      | SC 142 0000   | 6-009908-0000                        |
| 190        | Screw 3,5x9,5 DIN 7504 M, Zn               | A 67/4        | 6-003096-0000                        |
| <b>220</b> | <b>Fabric screen</b>                       |               | <b>see Sampler of Screen fabrics</b> |
| 250        | Handle SCREEN-S                            |               | 3-02445-0000                         |



BOX NA STŘEŠNÍ SCREEN 3-02443-XXXX-A

## SCREEN SKY



### 1. MEASUREMENT OF WINDOWS

It is recommended to make the assessment from the exterior side of the roof window, and at the very plating. If the window is fitted with a nameplate, then in the order form, to its notes, specify the exact name and type of the roof window to verify the accuracy of the measured values.

#### THE WIDTH AND LOCATION OF BOTTOM HOOK OF ROLLER BLIND IS MEASURED HEREBY:

**WIDTH: (W)** Measure the diameter of the wing (size **w** of glass) and we recommend to add min.80mm for overlap to measured values. The total measured data (W) must take into account the shape and size of the plating measured roof window. This measured value will be written into the order form FOR ROLLER blinds. The blinds are manufactured to the millimeter widths from 400 mm to 1200 mm width. NB. The WIDTH of the FABRIC (the actual shaded area) is 22 mm less than the total measured value of roller blind.

When the roof window is provided through the belay bolts flashing where the upper box is fixed, measure the distance between these screws (B) and the distance of upper frame (C). If the roof blind isn't provided by them, this figure is not showing. Dimensions beyond the set limits must be consulted with the manufacturer.

#### HEIGHT: (H)

The height is measured as lightness of window wing (dimensions of glass **h**) and we recommend to add min. 150 mm for overlapping to the measured value. Total measured dimension (H) must take into account the shape and dimension of plating of roof window.

The maximum height of shading is 1600 mm.

Dimensions beyond the set limits must be consulted with the manufacturer, too.

#### Location of lower hooks

When the roof window is in the bottom wing and is provided through the belay bolts flashing, measure the distance between these screws. (B1) If the roof windows not provided by these screws, this figure is not mentioned and will be assigned in the manufacture of blinds.

NB. When the roof window is in the bottom wing and is provided through the belay bolts flashing, measure always the distance between these screws.

#### THIS IS NECESSARY TO SPECIFY INTO THE ORDER FORM:

1. All the dimensions wanted
2. Colour design and type of fabric chosen
3. Name + type of window + identification number, specified in the notes of order form

## 2. ASSEMBLY

Take the assembly only according to this manual which will help you to avoid unnecessary assembly errors or other inconveniences associated with them.

TOOLS FOR ASSEMBLY: • CORDLESS DRILL • SCREWDRIVER PH 2 • KNIFE, SCISSORS, PLIERS

Check: • Before assembly we recommend checking all parts of the delivered goods, which will eliminate potential problems. Any shortcomings or comments concerning the assembly or custom blinds please advise to manufacturers. • Remove all obstacles from the skylight, which could hinder the installation.

### ASSEMBLY:

- Open the roof window into position so that the assembly from the exterior can be run out
- If the window is equipped with a locking bolt at the attachment of the upper box blinds, remove these screws (If it is not equipped with a locking bolt, continue with next point).
- When the roof window is in the bottom wing and is provided through the belay bolts flashing, put them out
- Attach the top box blinds securing the top edge flashings and center to center of window
- Screw box of roller blind over plastic washer into the upper window frame plating (types of windows with a locking bolt removed, use only those holes for attachment)
- Place mats to cover plastic pads

### FIXATION OF BOTTOM HOOK:

- If the window is equipped with a locking bolt at the attachment of the upper box blinds, remove these screws
- If the roof windows not provided by these screws, measure the pitch of holes at the bottom part of roller blind
- Transfer this pitch on flashing wings depending on the axis of the window
- Screw the hooks through plastic backing
- Place mats to cover plastic pads

### FINISHING:

- Open the roof window to its maximal position and fix the bottom rail of roller blind to bottom hooks
- The roller blind will be pulled down automatically when closing the window
- The roller blind is prepared to its usage



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