

Manual

Solidare veranda

Assembly & Installation Manual V.01



****ATTENTION****

AVZ Group cannot be held liable for any errors that may occur in this manual, nor for any adverse consequences arising from the use of this manual.

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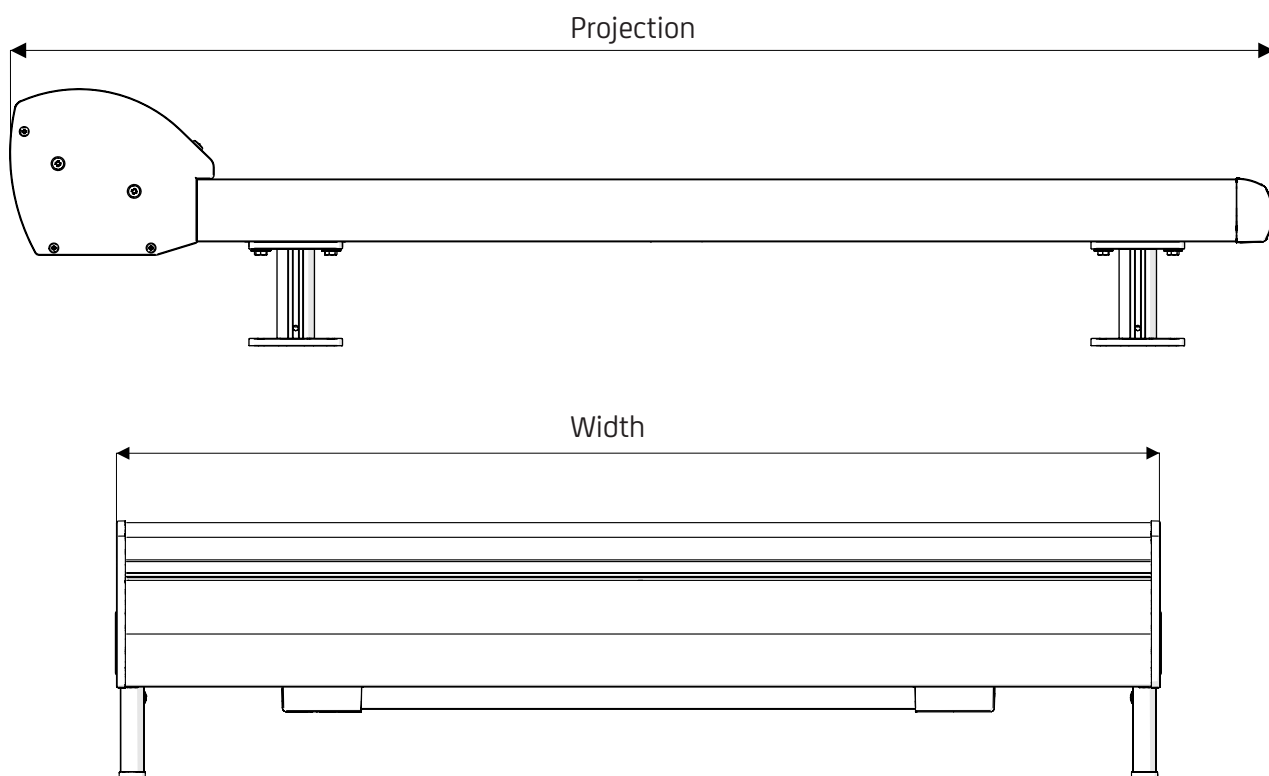
Solidare Veranda..... 40



General information



Basic dimensions



Width: Min. 2000 mm Max. 6000 mm

Projection: Min. 1500 mm Max. 5000 mm






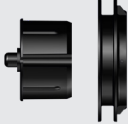










Width	Projection	
	1500 to 3500 mm	3510 to 5000 mm
2000 to 2500 mm	x	
2510 to 6000 mm	x	x

- Maximum fabric surface area 30 m² per screen section.
- In the event of a clear span of 4 metres or more, the front profile will bend a bit. This does not affect system functionality. If the clear span is more than four metres, we recommend using a tensioning system.
- In the event of a projection of more than 3.50 m, we recommend opting for fabric support underneath the guide.

Motor torque

Width	Projection		
	1500 to 3000 mm	3010 to 3750 mm	3760 to 5000 mm
2000 to 3000 mm	40 Nm	40 Nm	n.v.t.
3010 to 4000 mm	40 Nm	40 Nm	50 Nm
4010 to 5000 mm	40 Nm	40 Nm	50 Nm
5010 to 6000 mm	50 Nm	50 Nm	50 Nm

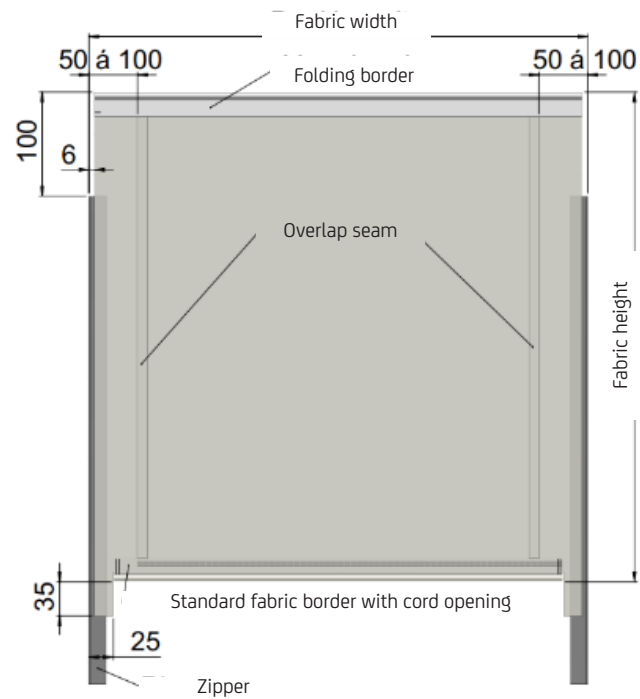
Determining the cutting sizes

Picture	Description	Formula	Quantity	Cutting size (mm)
	Rear/bottom cover	Width - 17 mm		
	Top	Width - 18 mm		
	Front profile, bottom	Width - 190 mm		
	Front profile, top	Width - 191 mm		
	Steel tube 85 (standard bungs)	Somfy Width - 60 mm ASA Width - 63 mm 		
	Steel tube 85 (new bungs)	Somfy Width - 164 mm ASA Width - 167 mm 		
	Side guide	Projection - 215 mm		
	Tension wire tensioning system (optional)	Width - 349 mm		
	Cover profile of tensioning system (optional)	Width - 463 mm		
	Cover extension (optional)	Width - 18 mm		
	Plastic guide	Projection - 190 mm		
	Guide (fabric support)	Width - 10 mm		
	Zipped fabric	Width - 120 mm Projection = Length of screen		
	Fabric without zipper	Width - 179 mm Projection = Length of screen		



Fabric manufacture

The Solidare veranda awning with zipper is possible only with lengths of acrylic fabric. If you do not want a zipper, you can also opt for Soltis fabric. The screen rolls up along the bottom of the Solidare veranda awning.



Number of supports for each projection

Projection	Number of supports
up to 2500 mm	2 supports per side guide
from 2510 mm to 4000 mm	3 supports per side guide
from 4010 mm to 5000 mm	4 supports per side guide

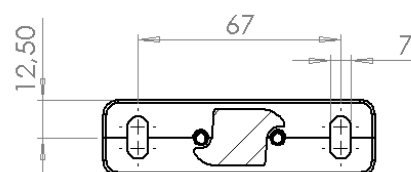
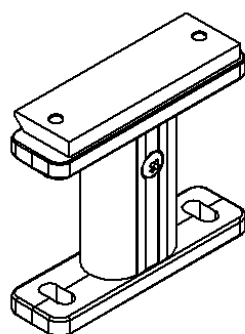
Side guide support (adjustable height)

Standard available heights: 70 mm, 100 mm and 135 mm

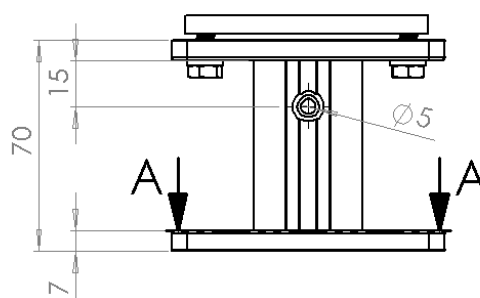
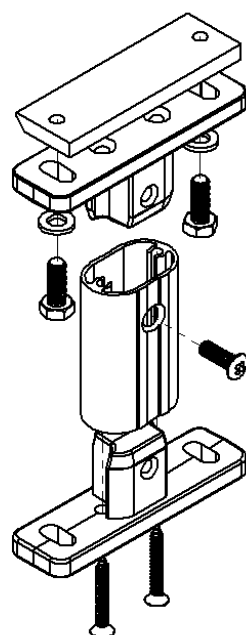
If a different support height is required, the parts must be ordered separately. In this case, the connecting tube is supplied with a length of 6 or 1.15 metres and should be cut and drilled to size.

Length of connecting tube = required support height - 14 mm

Minimal height side guide support	tensioning system underneath the front profile	interim beam (fabric roll support)
70 mm	NO	NO
100 mm	YES	NO
100 mm	NO	YES 4217 152
135 mm	YES	YES 4217 154



SECTION A-A



Assembly of Solidare Veranda



Preparation of profiles

1.0 Preparation of profiles

Shorten the profiles and plastic guides to the correct lengths (see cutting sizes).

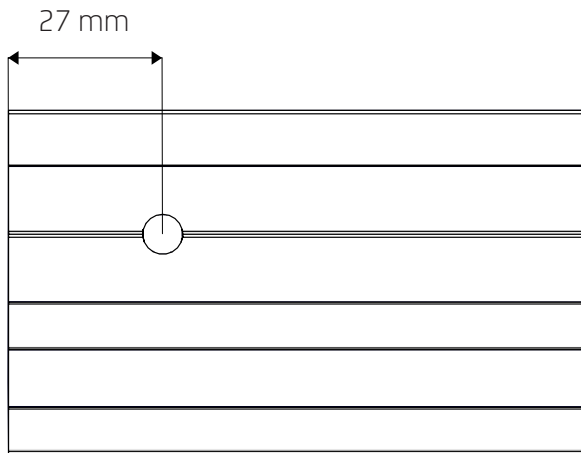


2.0 Drilling of side guides

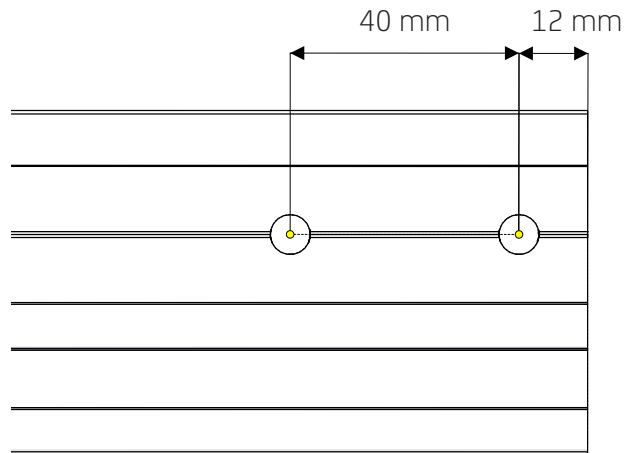
Drill 3 of 7 mm for each side guide, as shown below.

ATTENTION: A left and a right version.

Bearing block front

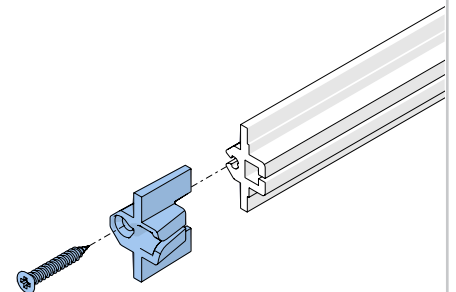


Cover support top



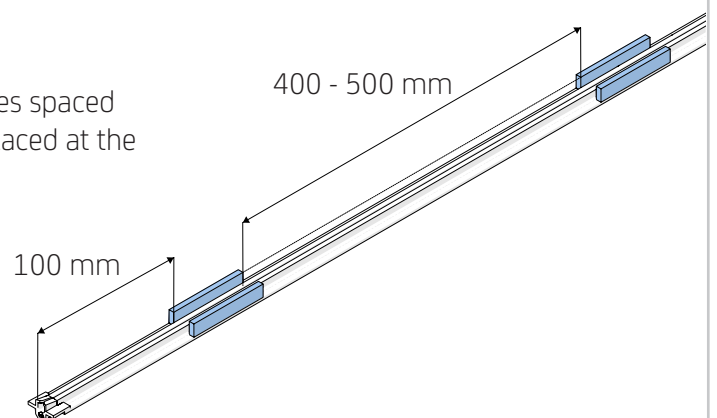
2.1 Installation of inlet guide

Screw the inlet guide to the guides using 2.9 x 19 mm self-tapping screws.



2.2 Attaching of neoprene strips

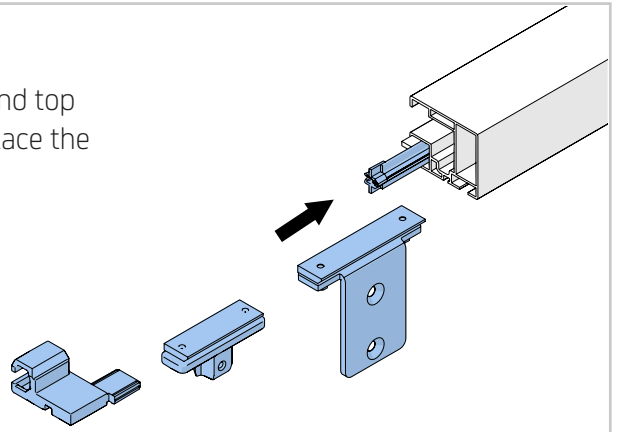
Attach 2x self-adhesive neoprene strips onto the guides spaced at 400-500 mm. Make sure that a neoprene strip is placed at the bottom and 100 mm from the top.



Assembly of side guide

2.3 Assembleren zijgeleider

Slide the plastic side guide, optional interim beam supports and top spacer supports in the side guide and tighten them slightly. Place the guide plate on the side with the 2 drilled holes.



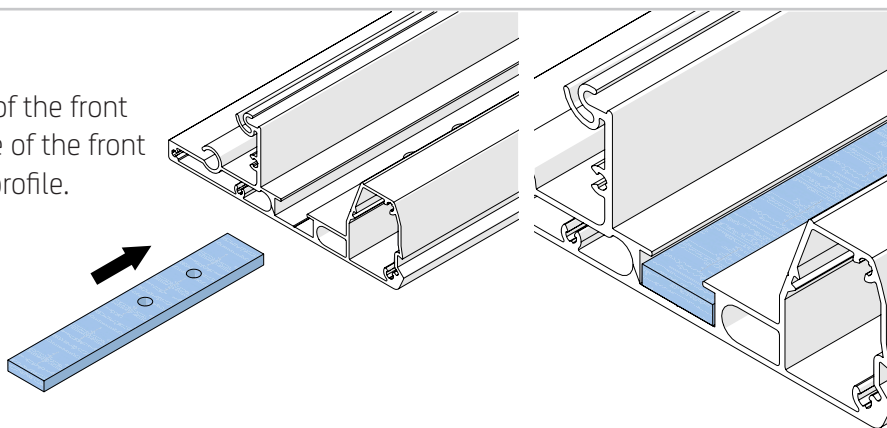
Assembly of tensioning system

A tensioning system to straighten the front profile is optional and recommended from a width of 4 metres.

Continue on **page 21** if the system is not being used.

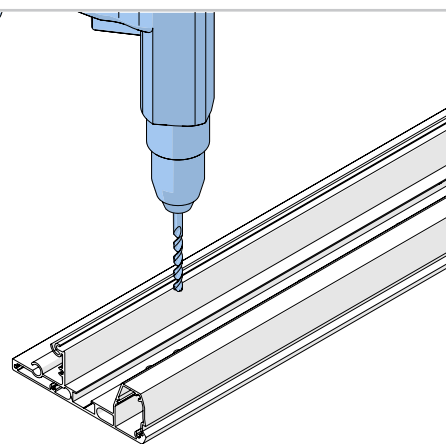
3.0 Marking of holes

Slide the clamping plate into the slot of the front profile with the holes facing the centre of the front profile. Copy the holes onto the front profile.



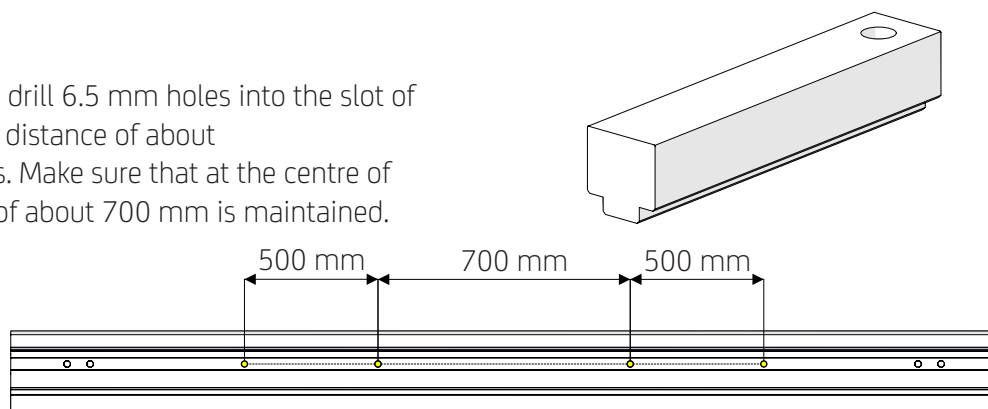
3.1 Drilling of holes

Drill the 9 mm holes into the front profile on both sides as shown in the picture.



3.2 Drilling of holes

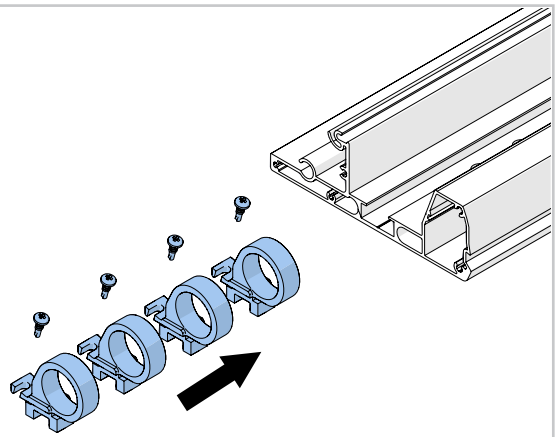
Use the drilling template to drill 6.5 mm holes into the slot of the front profile. Maintain a distance of about 500 mm between the holes. Make sure that at the centre of the front profile a distance of about 700 mm is maintained.



Assembly of tensioning system

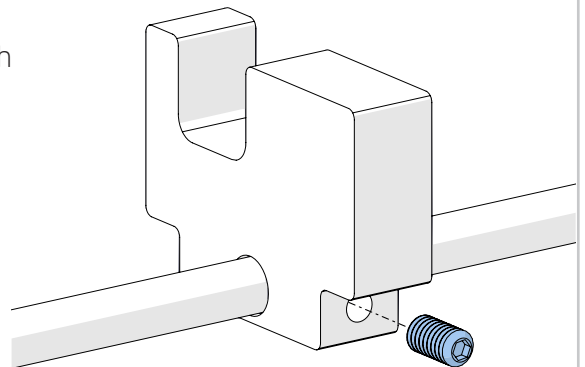
3.3 Placing of spring support blocks

Place the spring support blocks as shown in the picture.



3.4 Fitting of block

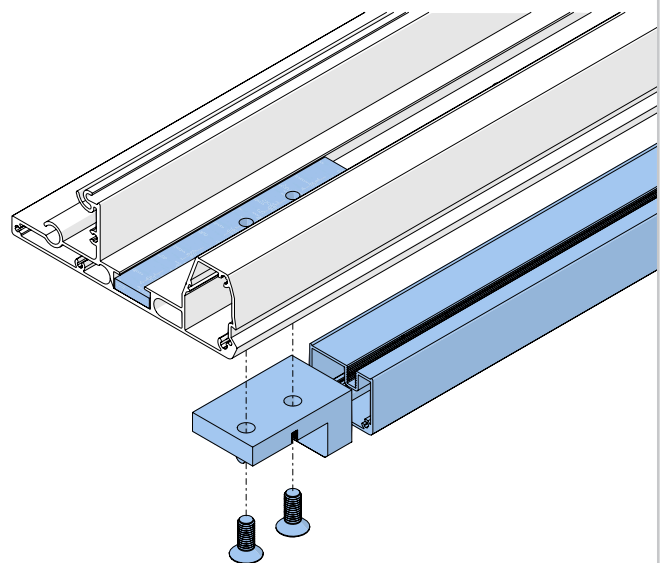
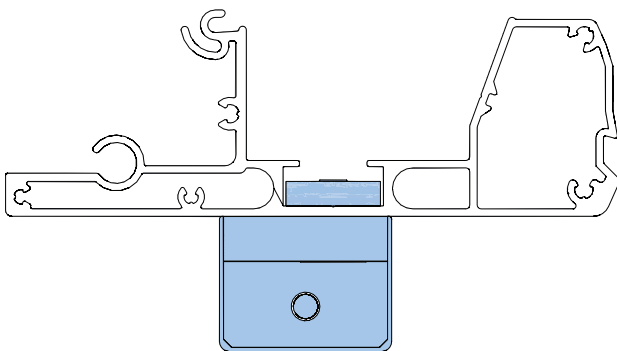
Slide the block to the centre of the tension wire and fasten it with an M4 adjusting screw.



3.5 Fitting of mounting blocks

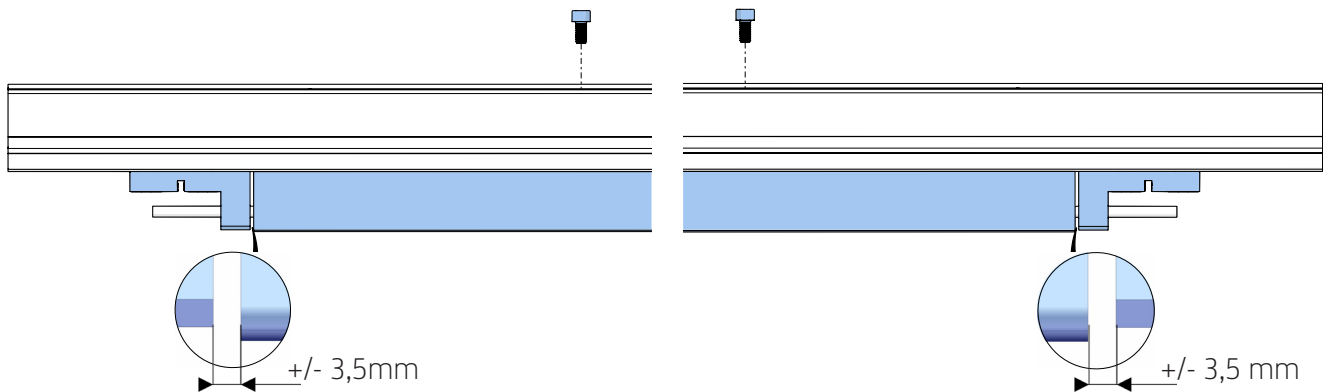
Insert the tension wire through the mounting blocks and the cover profile. Fasten the mounting blocks in the clamping plate using M8x25 bolts.

ATTENTION: Make sure the mounting blocks sit in a central position underneath the front profile.



3.6 Securing of tensioning system

Leave a gap of approximately 3.5 mm on both sides between the mounting block and the cover profile. Secure the cover profile by fastening the M6 x 12 mm Allen screws (cylinder head) through the 6.5 holes and into the cover profile.



3.7 Tensioning of tension wire

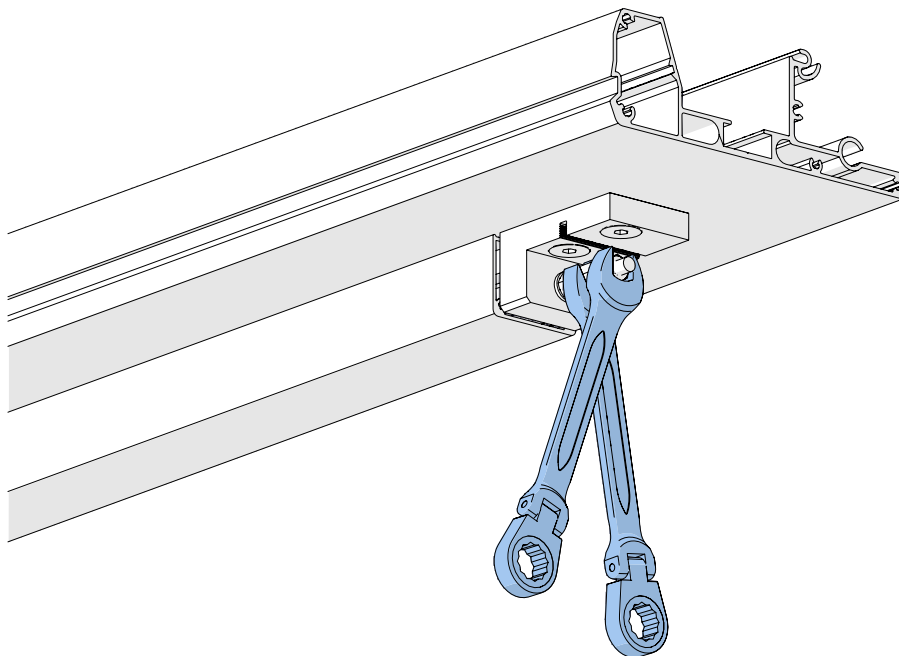
Place the lock nut, hexagonal union nut and retainer onto the tension wire. The anchor bush with the wedge set should be attached on the other side.



Assembly of tensioning system

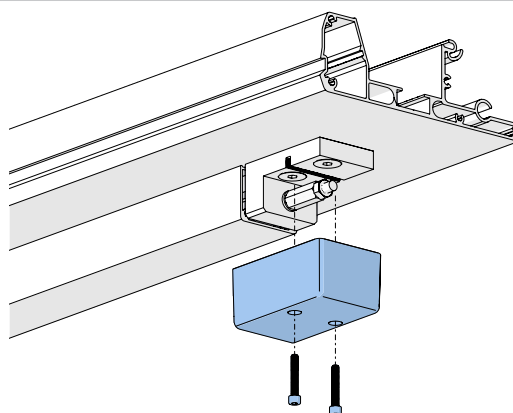
3.8 Tensioning of tension wire

Tighten the hexagonal union nut to straighten the front profile. Then tighten the lock nut against the hexagonal union nut to secure it.



3.9 Placing of covers

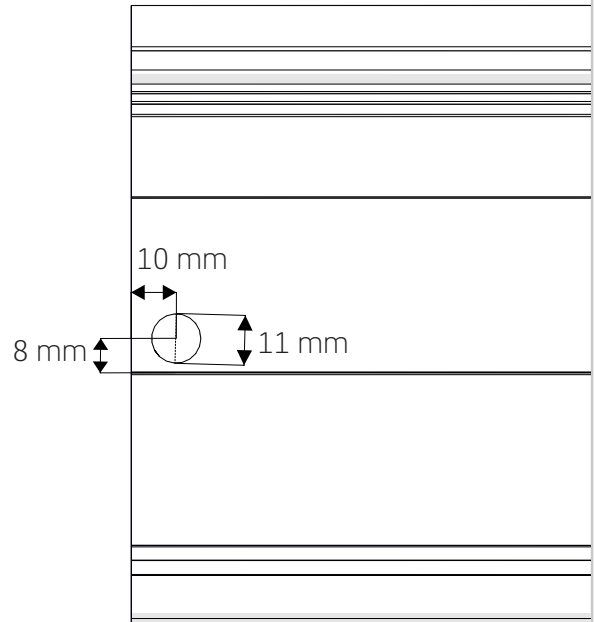
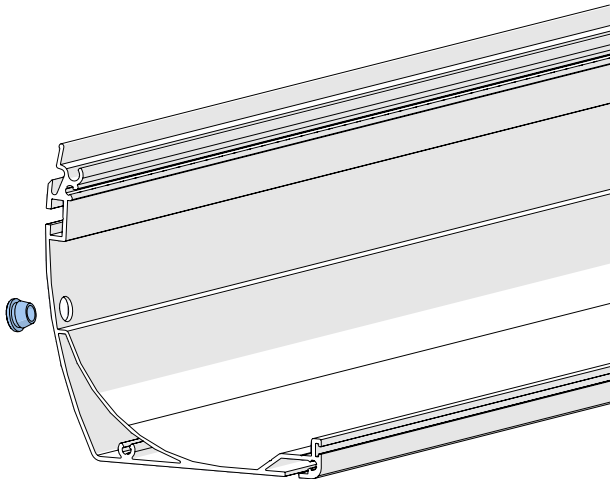
Mount the covers as shown in the picture. Use screws M4 x 25 mm Allen screws (cylinder head).



Assembly of bottom cover

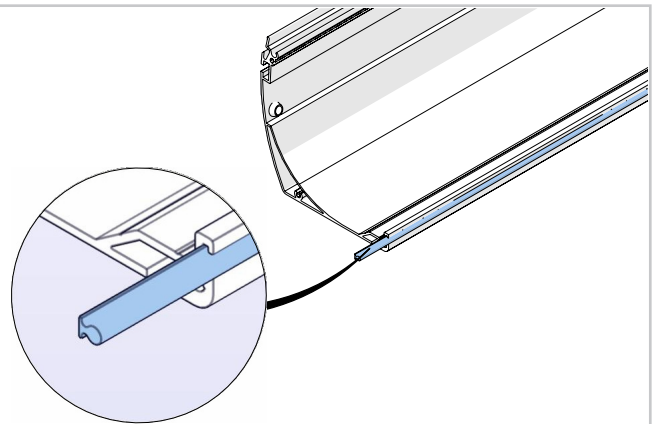
4.0 Drilling hole for motor cable

Also create an 11-mm hole in the bottom cover on the control side for the motor cable and put tule on this hole.



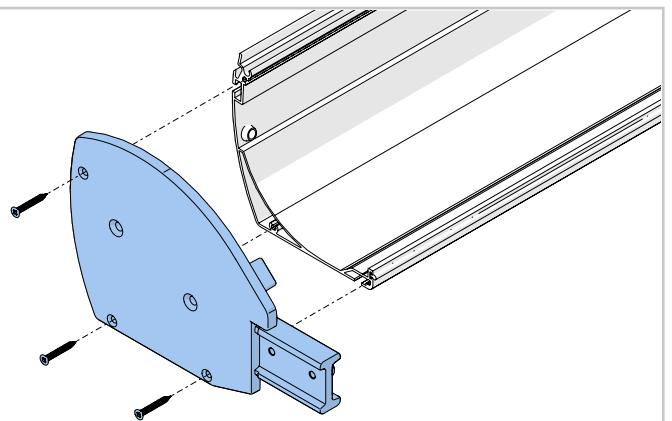
4.1 Sliding in plastic seal

Cut the plastic seal to the same length as the bottom cover and slide it into the slot as shown in the picture.



4.2 Installation of cover supports

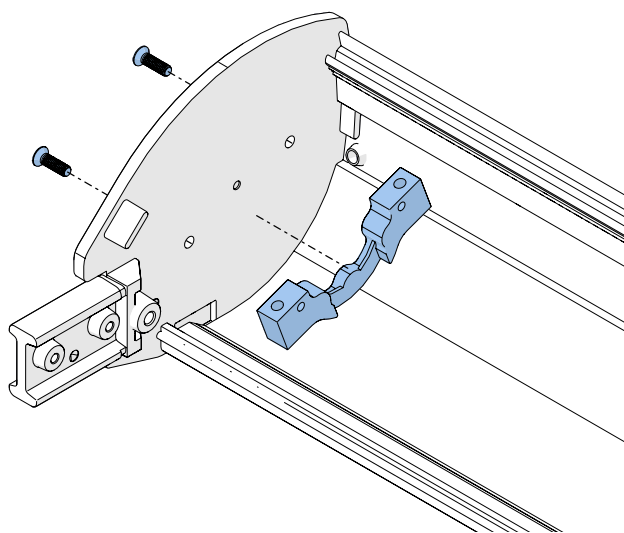
Install the cover supports on both sides of the bottom cover using three 4.2 x 32 mm self-tapping screws (countersunk head/cross-head).



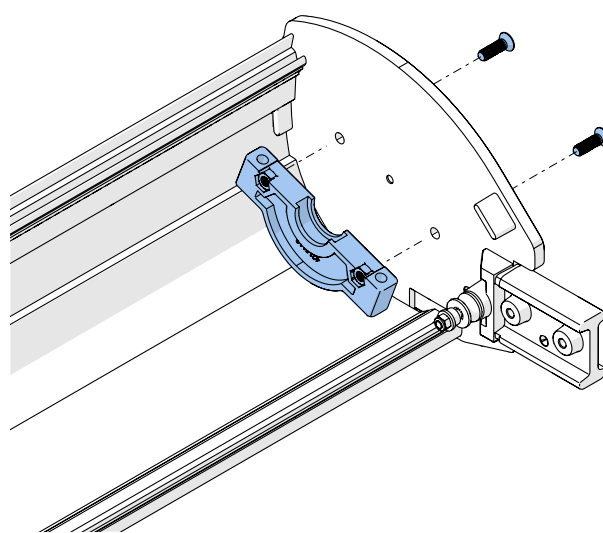
Assembly of bottom cover

4.3 Installation of bottom half of bearing block and motor support

Install the bottom half of the bearing block to the inside of the cover support as shown in the picture.



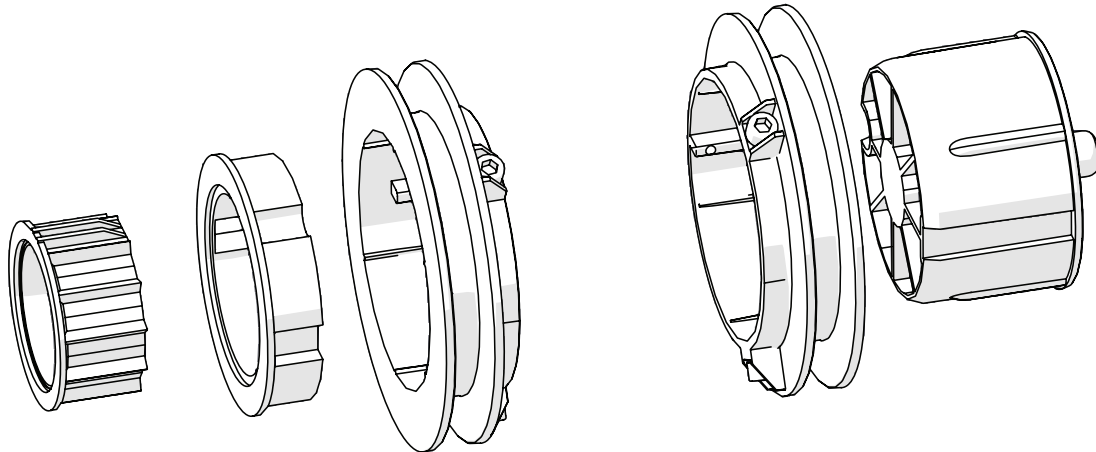
Install the bottom half of the motor support to the inside of the cover support as shown in the picture.



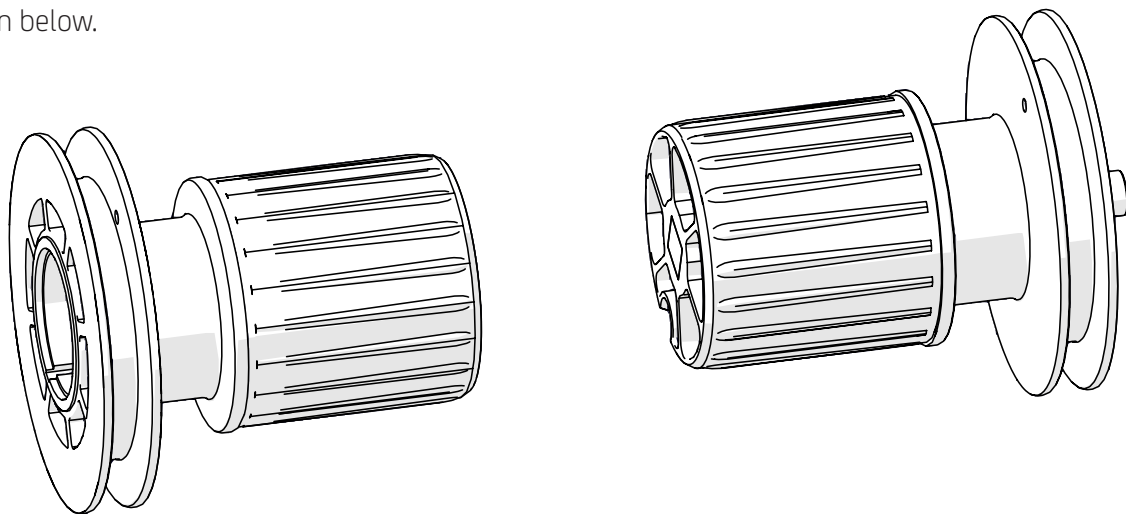
Assembly of fabric roller

There are two different ways to assemble the fabric roller. The way to be used depends on whether the solidare has the standard bungs or the new bungs with integrated pulley wheels.

Continue at **step 5.0** on **page 24** if the solidare has the standard set of props as shown below.



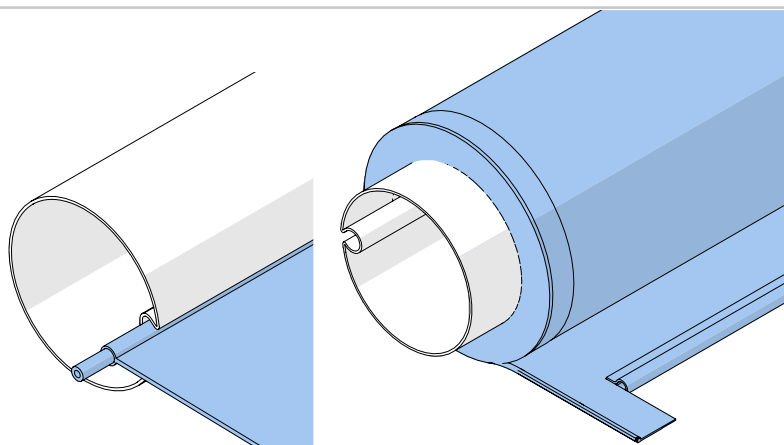
Continue at **step 6.0** on **page 26** if the solidare has the prop set with integrated pulley wheel as shown in the illustration below.



Assembly of fabric roller

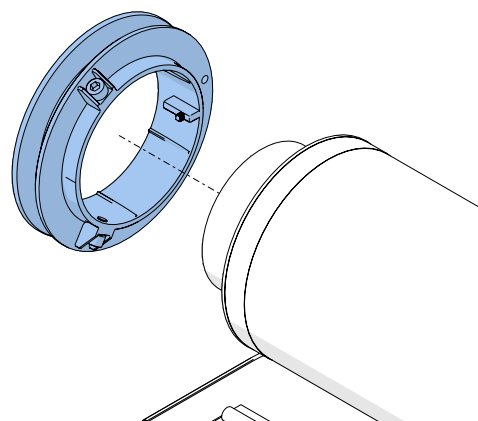
5.0 Attaching the fabric to the roller

Slide the fabric cords into the fabric. Pull the fabric into the fabric slot on the roller and roll the fabric up along the bottom. If necessary, use silicone spray to allow the fabric to slide more easily into the fabric slot.



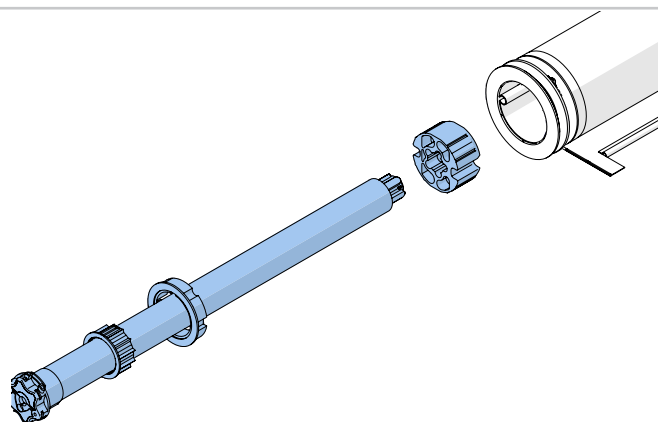
5.1 Attaching the cord pulleys to the roller

Slide the cord pulleys over both sides of the roller, but do not fasten them yet.



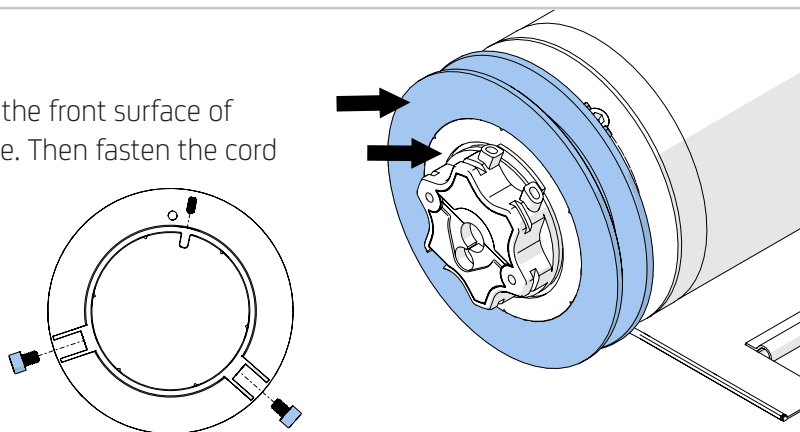
5.2 Placing of motor

Place the motor into the roller.



5.3 Positioning of cord pulley

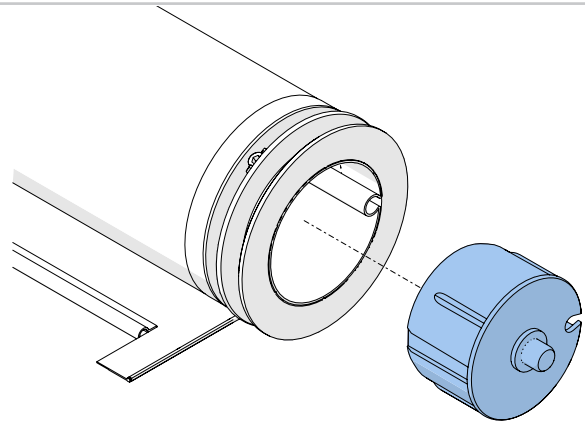
Align the front surface of the cord pulley with the front surface of the bearing roller bung as shown in the picture. Then fasten the cord pulley using the two Allen screws and the adjusting screw.



Assembly of fabric roller

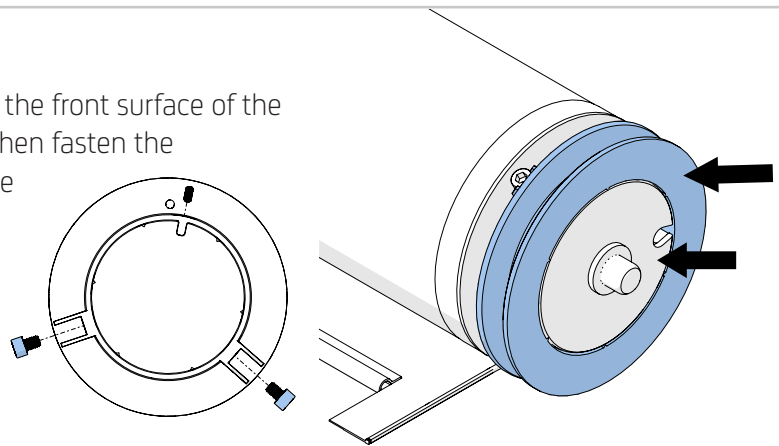
5.4 Placing of bearing roller bung

Place the bearing roller bung in the roller as shown in the picture.



5.5 Positioning of cord pulley

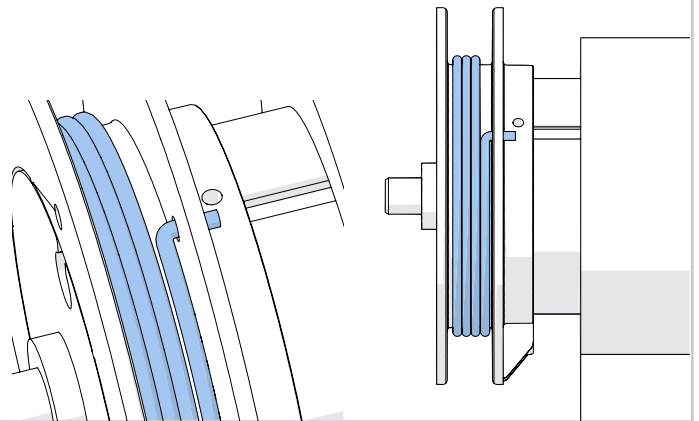
Align the front surface of the cord pulley with the front surface of the bearing roller bung as shown in the picture. Then fasten the cord pulley using the two Allen screws and the adjusting screw.



5.6 Attaching the cord to the cord pulley

Thread the cord through the hole in the cord pulley and secure it with a double knot. Then roll the cord **opposite** to the direction of the fabric neatly around the cord pulley **four** times.

Cord length: $2 \times \text{projection} + 1.5 \times \text{width} + 1 \text{ m.}$



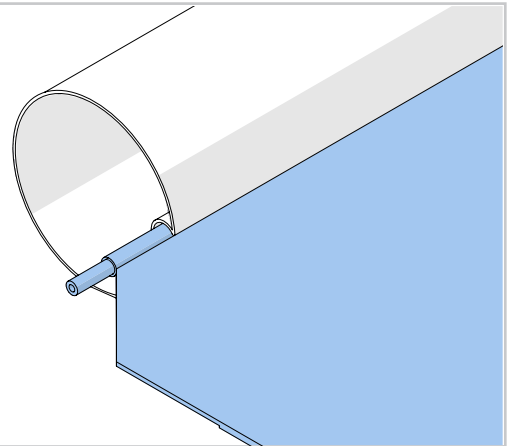
Continue at step 7.0 on page 28



Assembly of fabric roller

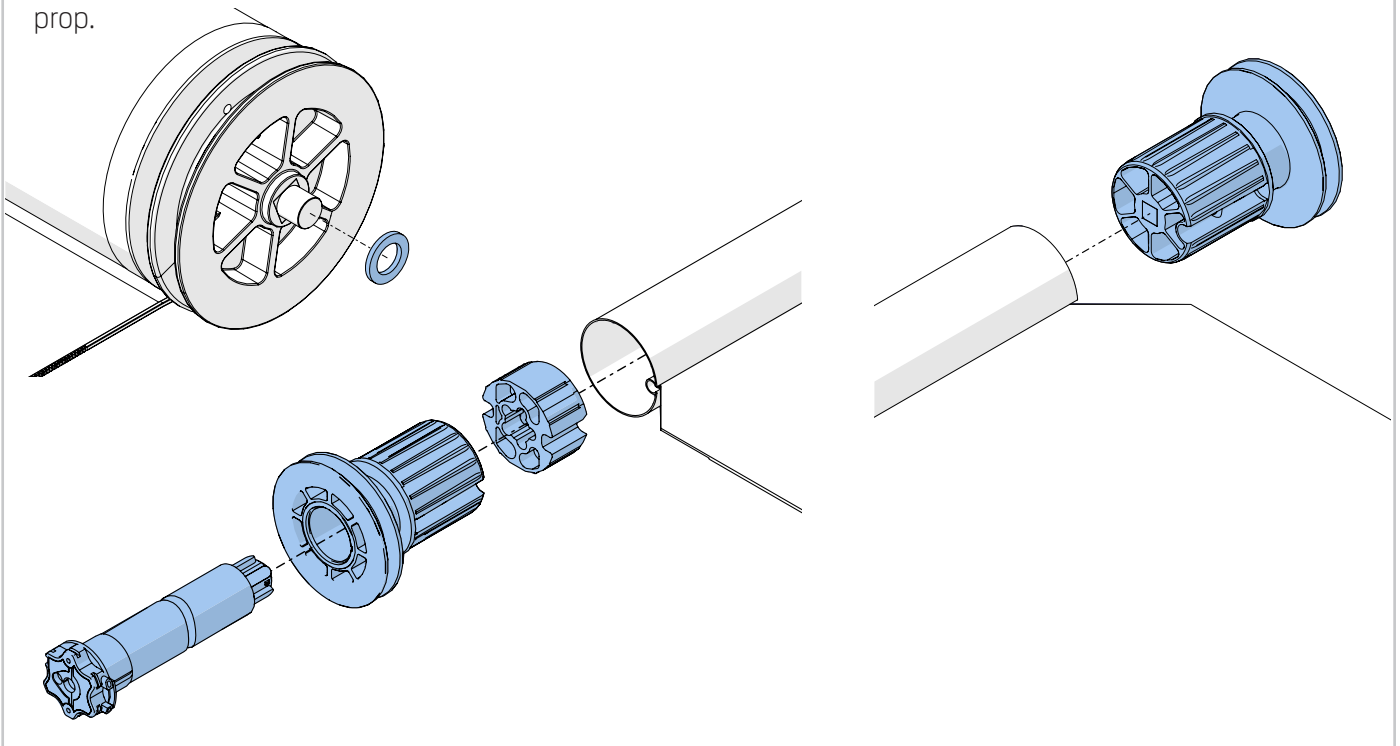
6.0 Attaching the fabric to the roller

Slide the fabric cords into the fabric. Pull the fabric into the fabric slot. If necessary, use silicone spray to allow the fabric to slide more easily into the fabric slot.



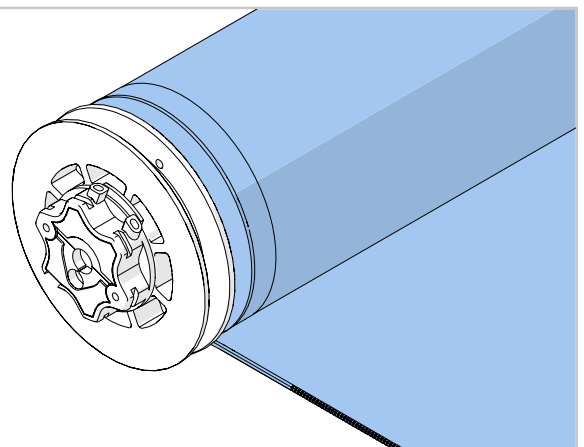
6.1 Installation of bearing prop and motor

Place the motor with motor prop and carrier in the tube as shown in the picture. On the other side, place the bearing prop in the tube. Also place retainer 24 x 15 x 2.5 on the shaft of the bearing prop.



6.2 Rolling up the fabric

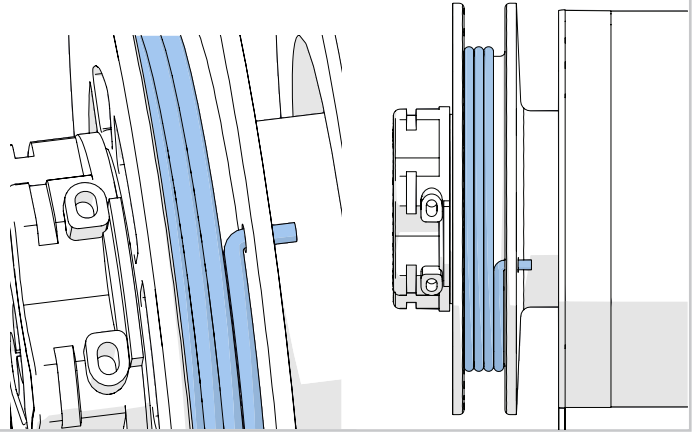
Roll the fabric along the bottom of the fabric roller as shown.



6.3 Attaching the cord to the pulley wheel

Thread the cord through the hole in the pulley wheel and secure it with a double knot. Then roll the cord in the **opposite direction** to the fabric neatly around the pulley wheel **four rotations**.

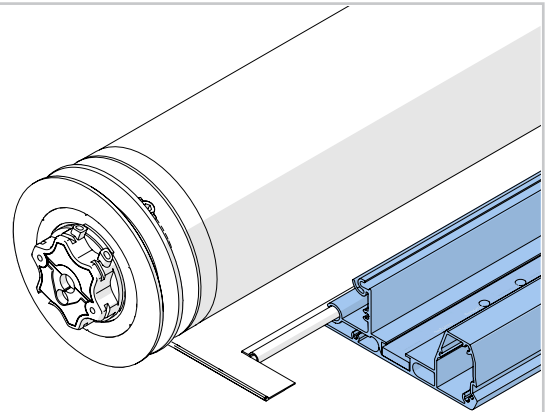
Cord length: $2 \times \text{projection} + 1,5 \times \text{width} + 1 \text{ m}$.



Assembly of front profile

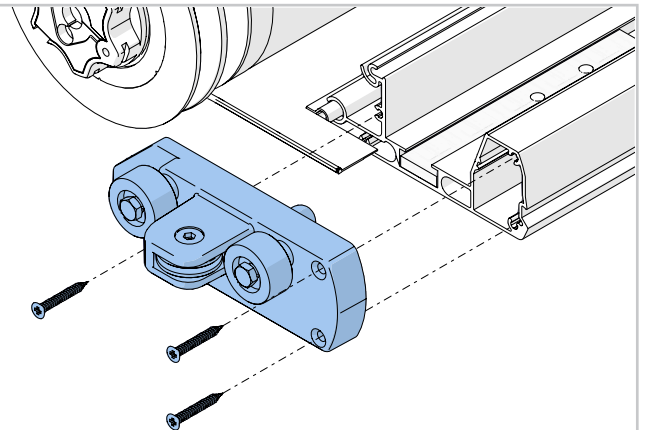
7.0 Fitting of front profile

Fit the front profile to the fabric as shown in the picture.



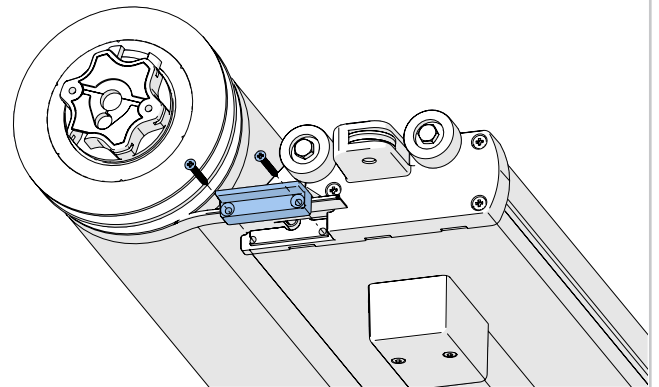
7.1 Installation of guide blocks

Mount the guide blocks as shown in the picture. Use 4.2 x 32 mm self-tapping screws (countersunk head/cross-head).



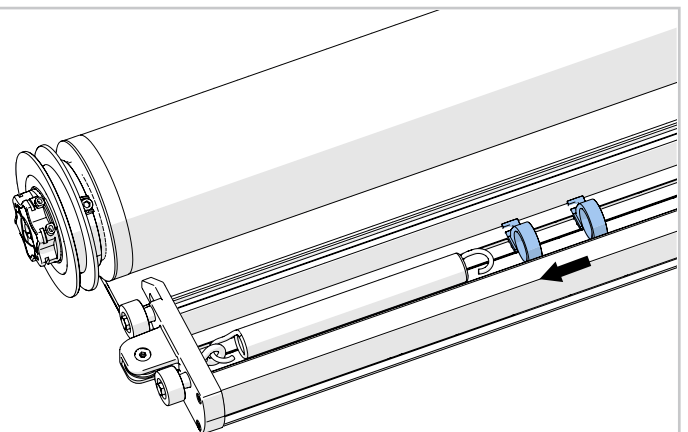
7.2 Installation of end caps

Install the end caps underneath the front profile as shown in the picture. Use 3.5 x 32 mm self-tapping screws (countersunk head/cross-head).



7.3 Placing of springs

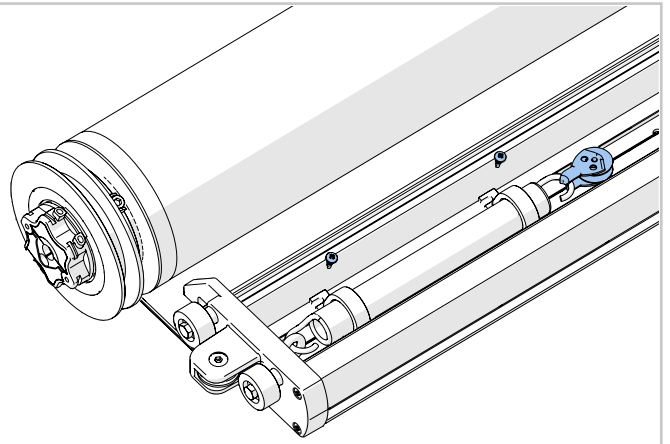
Place the pneumatic spring in the front profile and slide the spring holder across as shown in the picture.



Assembly of front profile

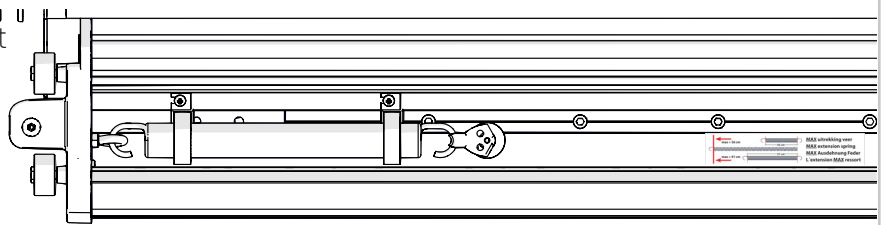
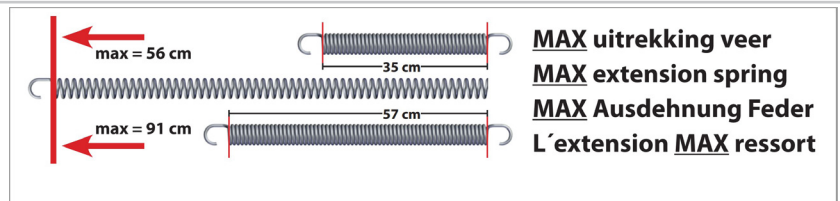
7.4 Securing of springs

Use the spring support blocks with 4.2 x 13 mm self-drilling screws (cylinder head/cross-head). Also hook the pulleys to the springs.



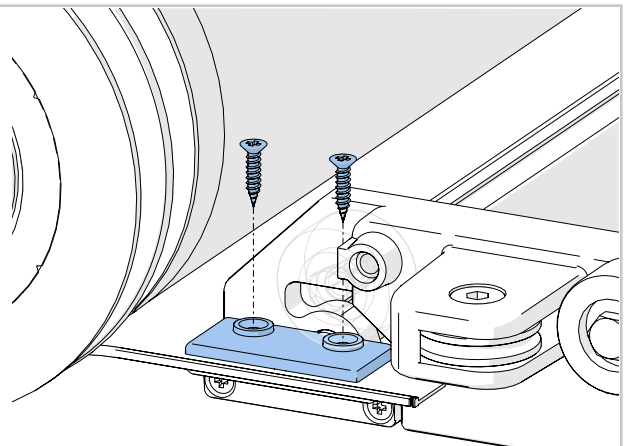
7.5 Attaching of stickers

Attach the cord tensioner stickers to the inside of the front profile as shown in the picture. Place the red line on the stickers at the right distance from the side of the front profile. (56 cm for short spring, 91 cm for long spring).



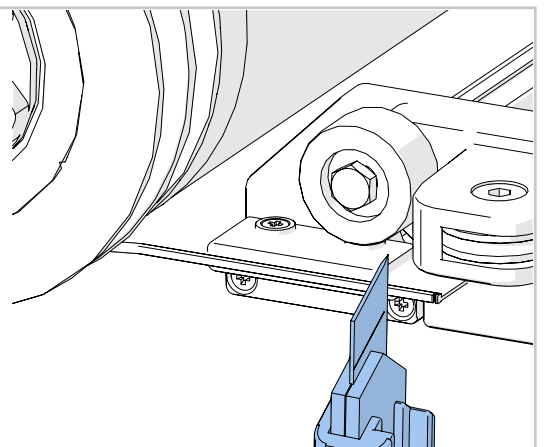
7.6 Securing of fabric

Place the zipper parallel to the plastic end cap and make sure that the zipper protrudes by about 7 mm on both sides. Secure the plastic end plate using 3.5x16 mm self-tapping screws (countersunk head/cross-head).



7.7 Cut the remaining cord

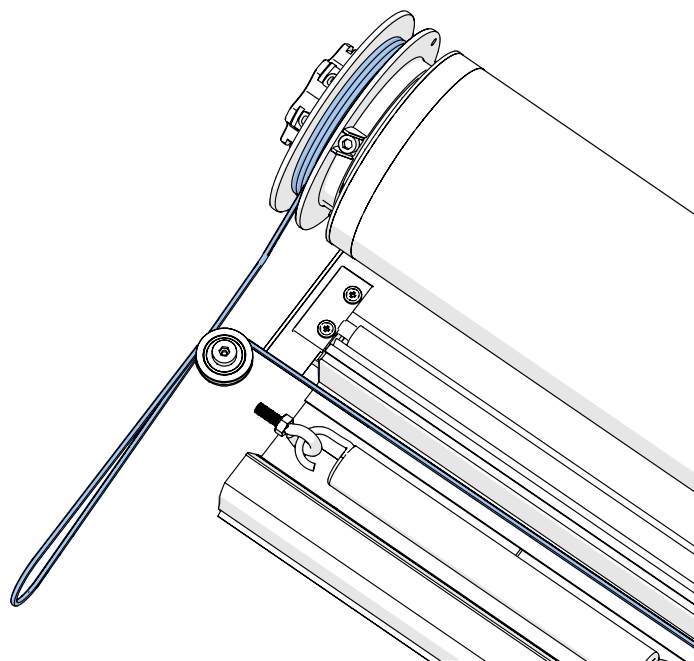
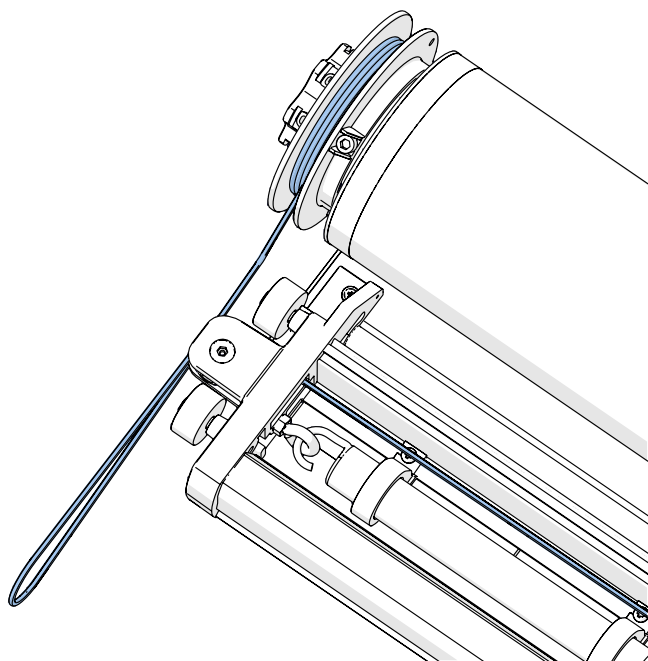
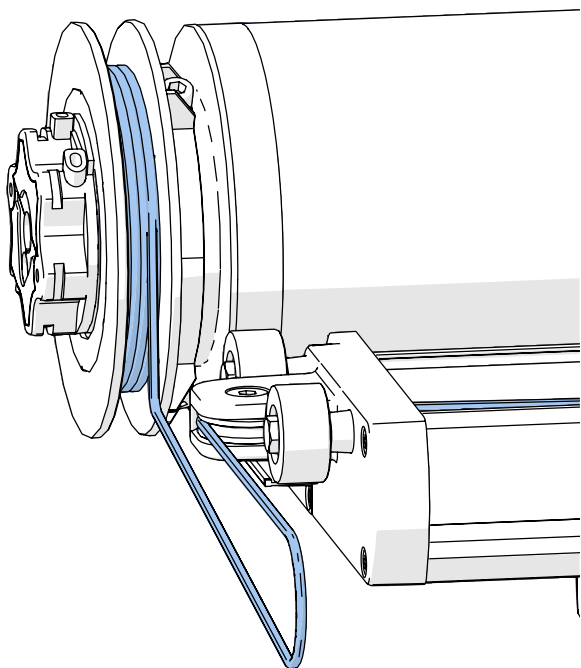
Cut off the remaining pieces of the zipper as close to the end caps as possible.



Assembly of front profile

7.8 Cord

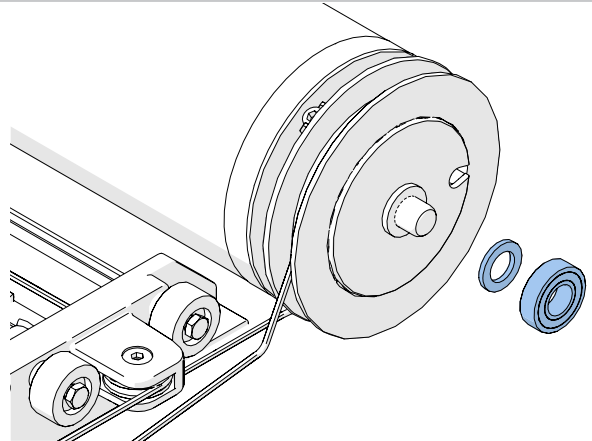
Thread the cord through the hole in the cord pulley and secure it with a double knot. Roll the cord opposite to the direction of the fabric neatly around the cord pulley four times. Insert the cord into the front profile through the guide block. Allow a loop to protrude from the front profile. Roll up the remainder of the cord and place it in the front profile.



Installation of fabric roller

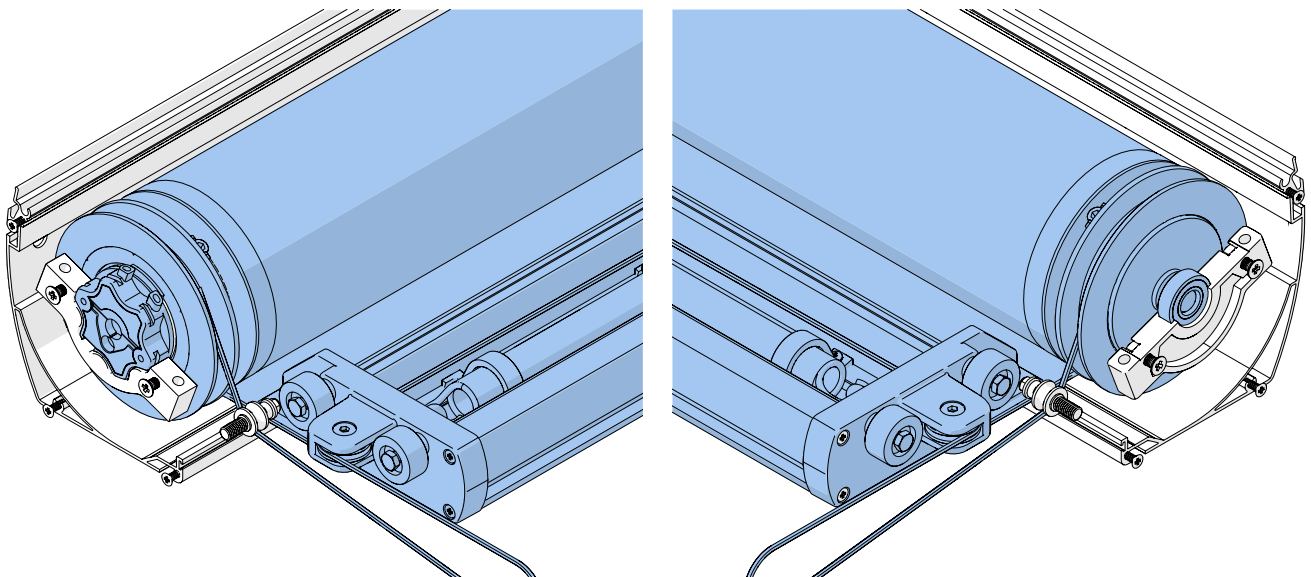
8.0 Installation of bearing

Place the 20 x 12 x 2 plastic retainer over the shaft. Push the adapter bush into the bearing and then place the bearing onto the shaft.



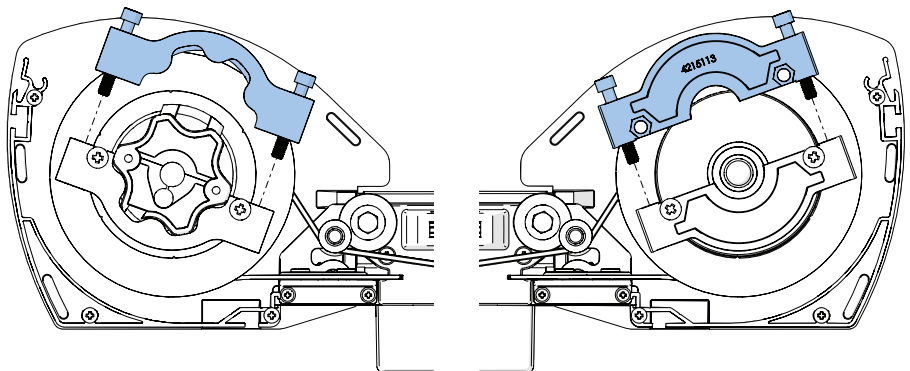
8.1 Fitting of fabric roller

Fit the fabric roller into the top cover as shown in the picture.



8.2 Securing of fabric roller

Fasten the fabric roller by mounting the counterparts.



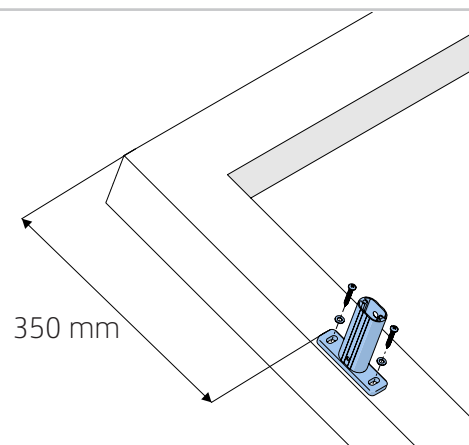
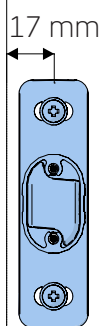
Installation of Solidare Veranda



Installation of side guides

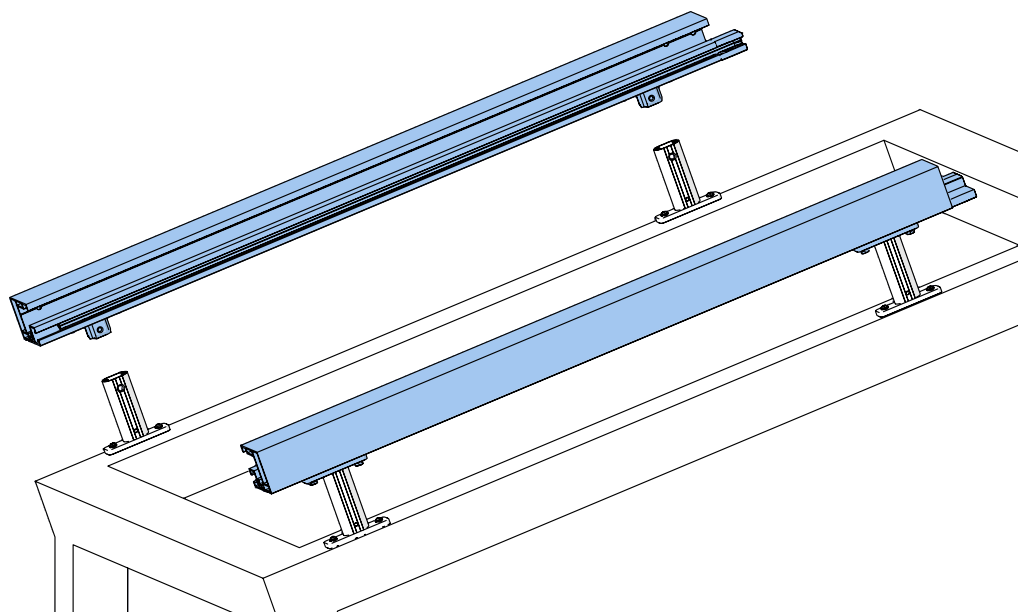
1.0 Installation of supports

Screw the bottom part of the spacer supports onto the canopy. Place the top spacer support 350 mm from the wall.



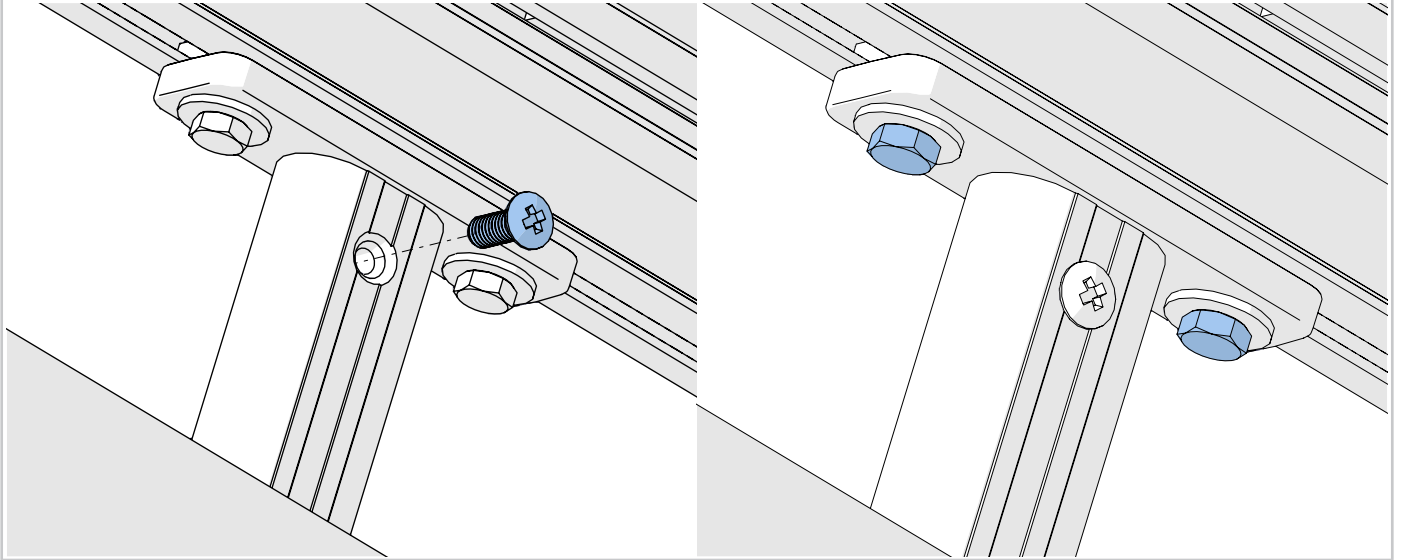
1.1 Installation of side guides

Place the side guides on the canopy using the top part of the spacer support.



1.2 Securing of side guides

Fasten the side guides using M5 x 16 mm screws (round head/cross-head). Tighten the hexagonal bolts into the supports to stop the side guides from sliding.

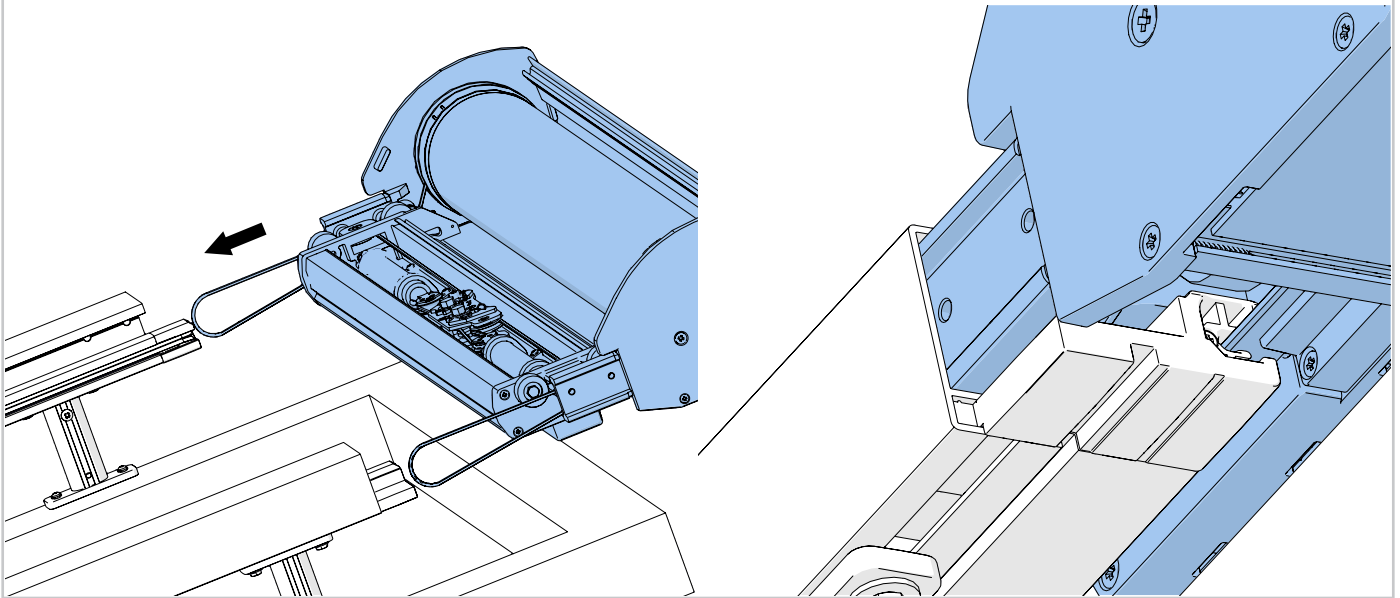


Installation of cassette

2.0 Placing of cassette

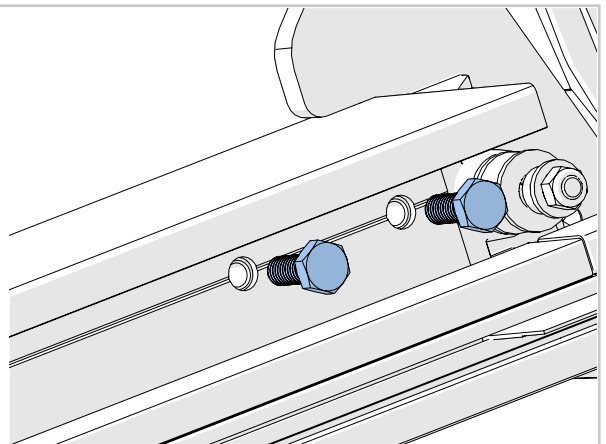
Lift the cassette, insert the wheels of the guide block into the side guide, slide the side guide onto the cover support and make sure the cord is free in the side guide.

ATTENTION: Make sure the zipper runs through the plastic guide.



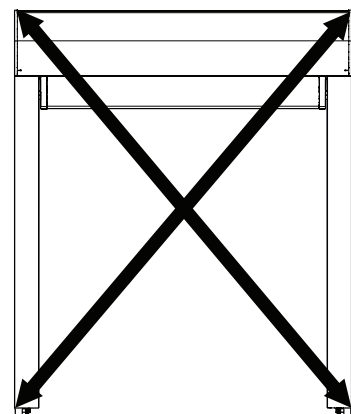
2.1 Securing of cassette

Secure the side guides to the cover supports using M6 x 16 mm hex bolts.



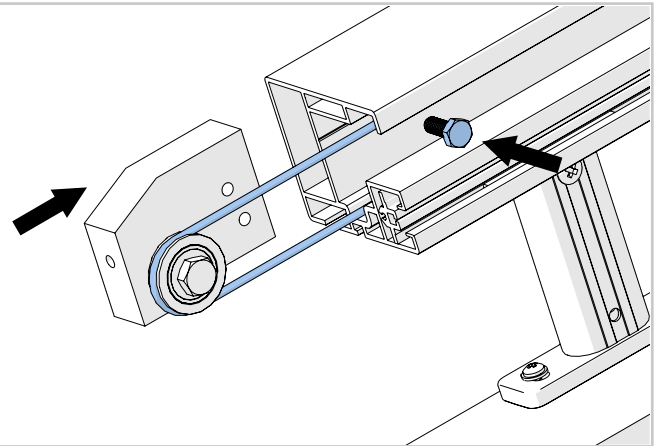
2.2 Checking of squareness

Make sure the Solidare is installed square. Check this by measuring diagonally.



3.0 Installation of bearing blocks

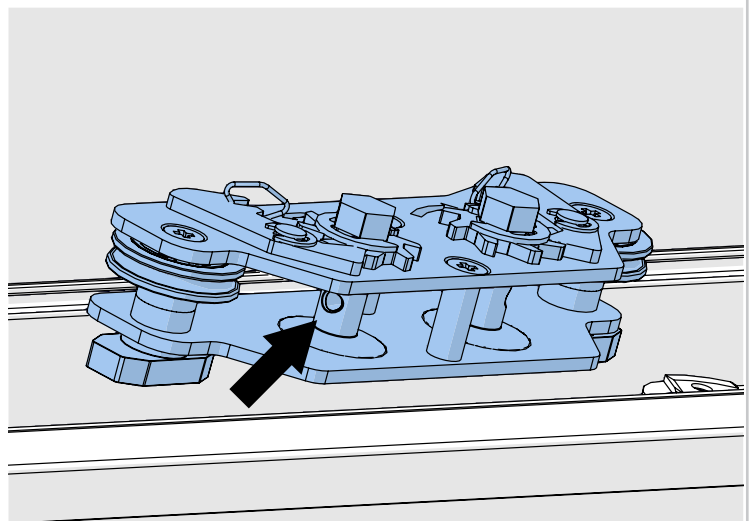
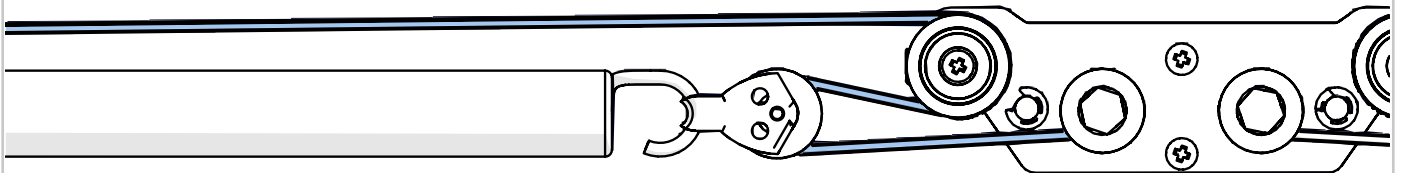
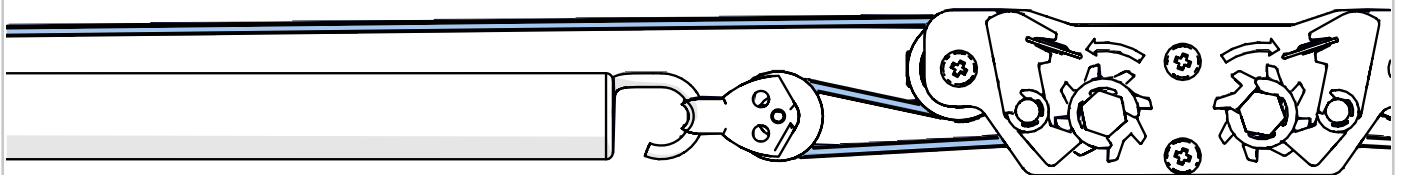
Pull the loops of the cords over the wheels of the bearing blocks at the end of the side guide. The cord must run across the bottom of the wheels of the bearing blocks from the cover supports. Slide the bearing blocks in the side guides and secure them using M6 x 16 mm hex bolts. **ATTENTION:** The cord should not cross.



3.1 Cord

Pull the cord through the cord tensioner and spring pulley as shown in the pictures. Insert the cord into the cord tensioner through the hole and slightly tension the cord. Tie a knot in the cord at about 25 cm behind the hole. Cut any excess cord behind the knot.

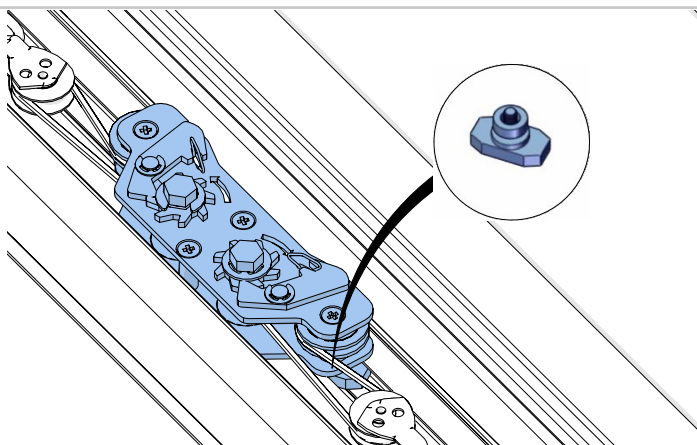
ATTENTION: Check if the cord runs across the wheels throughout the system.



Installation of cord

3.2 Fitting of cord tensioner

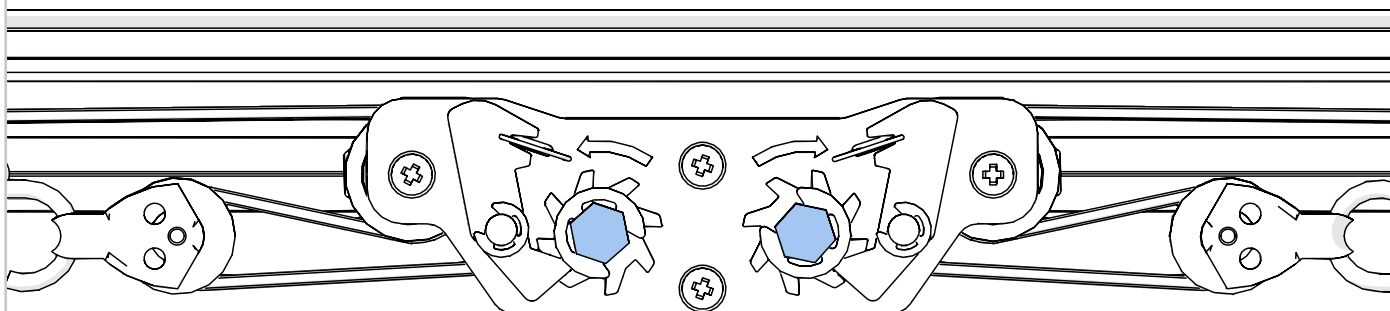
Check that the blocks at the bottom of the cord tensioner are properly fastened and cannot turn freely. Install the cord tensioner into the front profile as shown in the picture. Fasten the cord tensioner by turning the blocks with a screwdriver.



3.3 Tensioning of fabric

Let the screen unroll fully and check when the spring's tension is minimal. Mark the location where the front profile is at that time. When rolling up the screen, stop it in that location and tighten the spring so far that the fabric is sufficiently tight. Refer to the enclosed motor manufacturer's manual for adjustment of the motor endpoints.

ATTENTION! The maximum elongation of the springs is 60% of their original length.

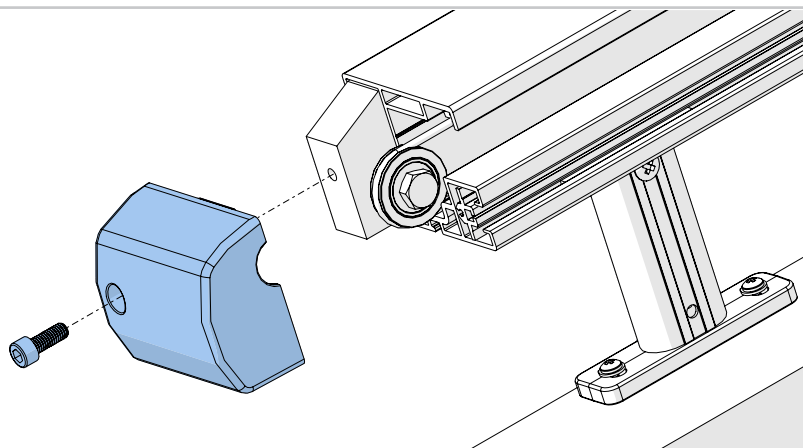


3.4 Checking of fabric

Roll the fabric in and out several times to check its functioning. Also check if the springs are not pulled out excessively.

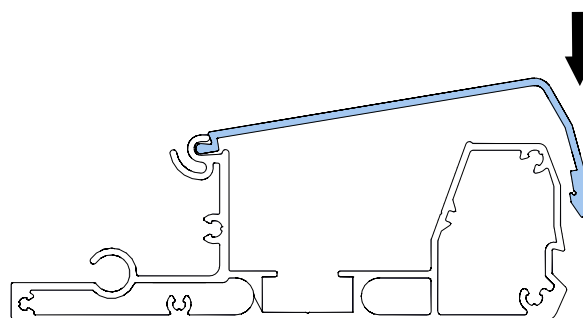
4.0 Installation of covers

Install the cover.



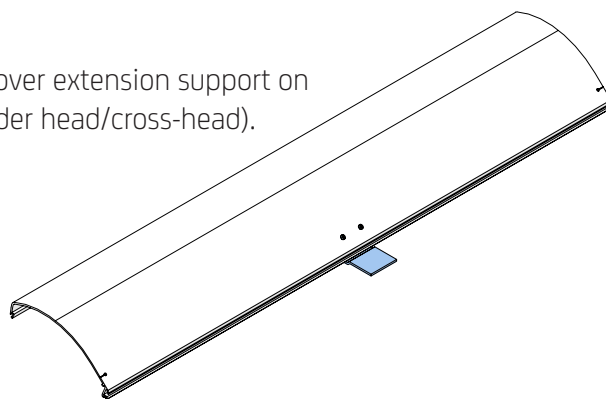
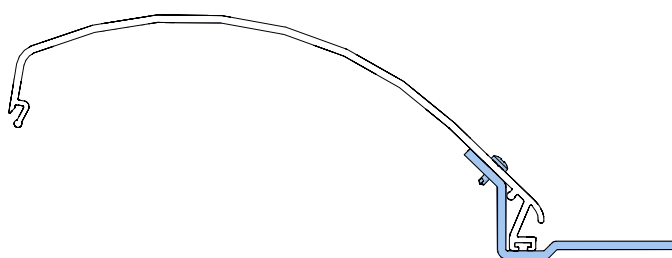
4.1 Installation of front profile cover

Install the cover of the front profile as shown in the picture.



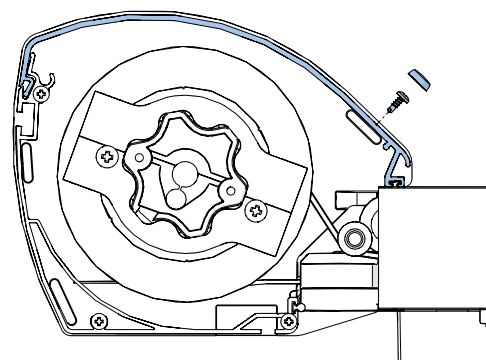
4.2 Installation of cover extension support (optional)

Screw (in the case of Solidare, wider than 4.0 metres) the cover extension support on the top cover using a 4.2 x 13 mm self-drilling screw (cylinder head/cross-head).



4.3 Installation of top cover

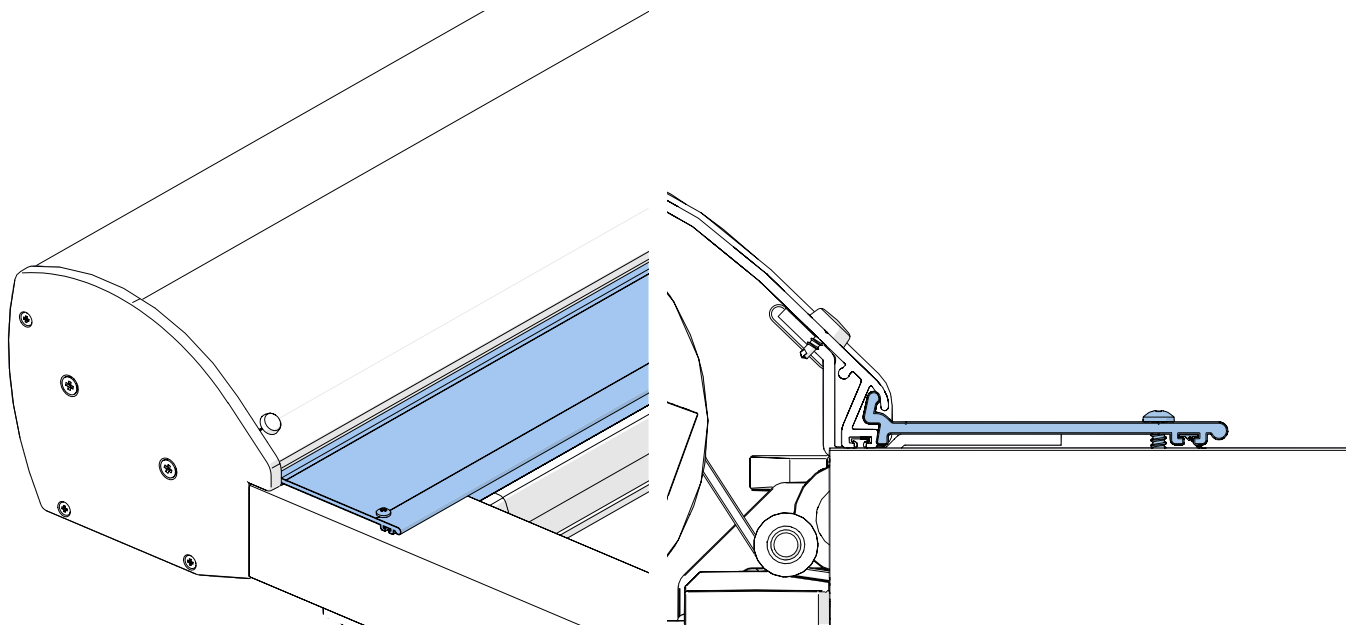
Slide the brush seal into the top cover. Place the top cover and secure it using a 4.2 x 13 mm self-drilling screw (cylinder head/cross-head) and press the covers on.



Installation of covers

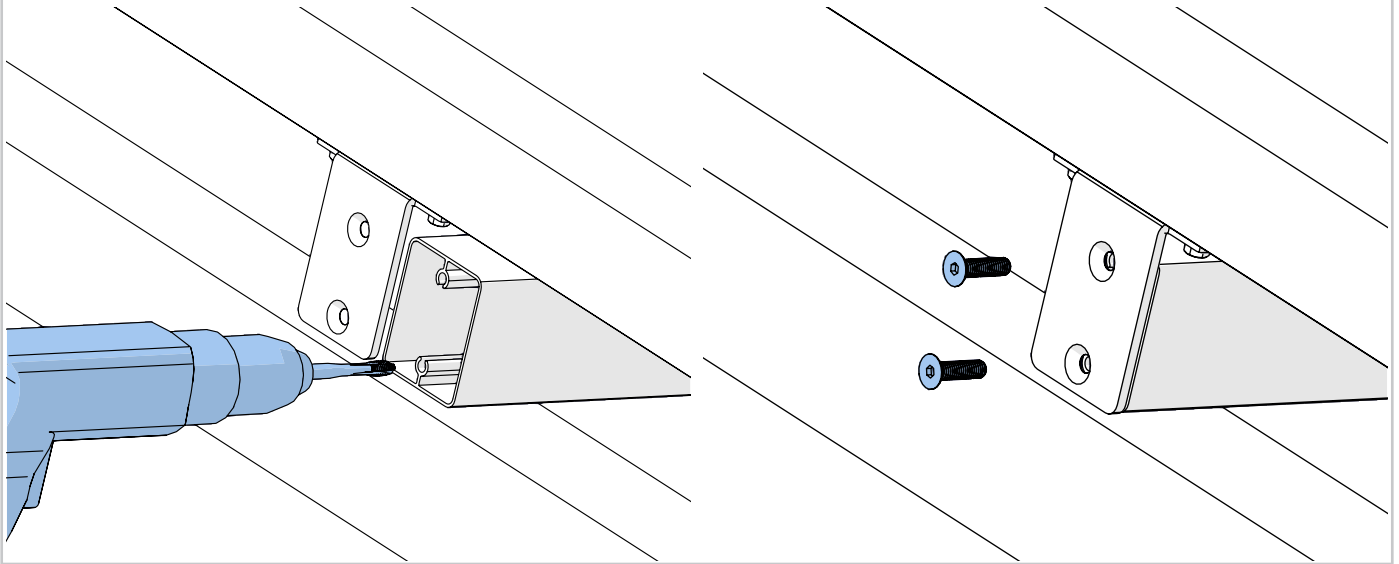
4.4 Installation of cover extension

Hook the cover extension and brush into the top cover and secure it to the side guide on the outside using a 4.2 x 25 mm self-drilling screw (cylinder head/cross-head) and press the covers on.



5.0 Installation of interim beam

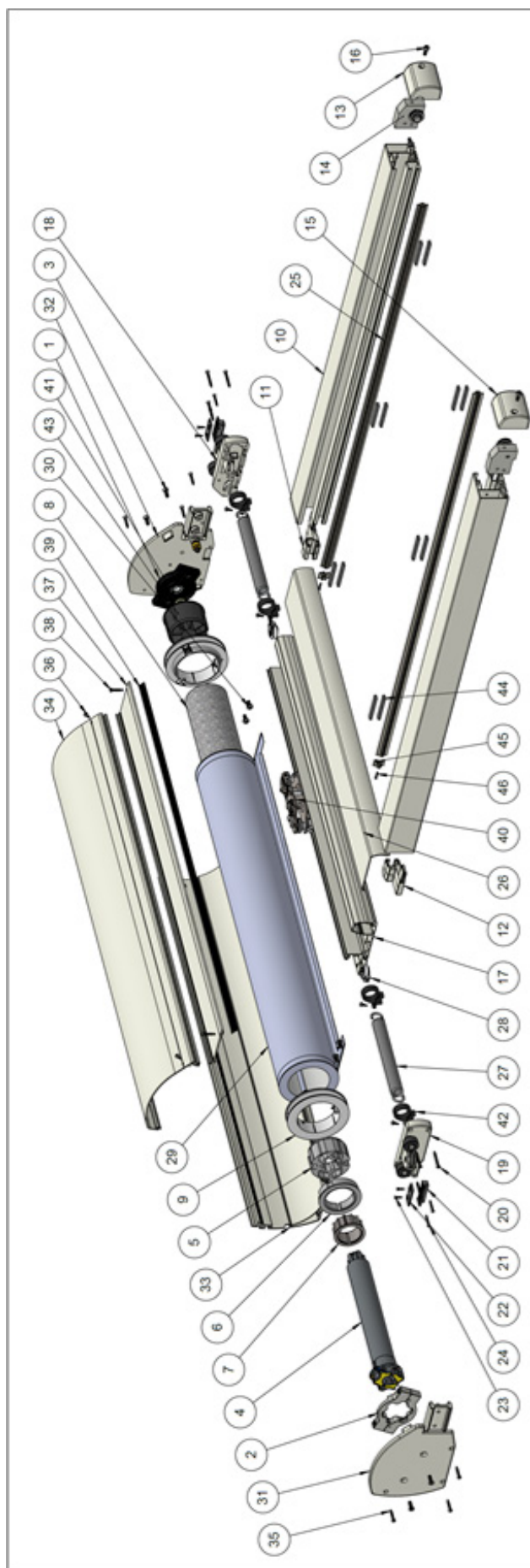
Cut M8 thread in the interim beam and place the fabric support interim beam between the supports, securing it with an Allen bolt M8 x 30 mm (countersunk head).



Appendices



Solidare veranda



pos	number	benaming	aantal
25	4452485	Kunststof geleider SolidScreen	2
24	4452077	zelflapper 3,5x32 VK/KK DIN7982 RVS-A2	4
23	4452083	zelflapper 3,5x16 VK/KK DIN7982 RVS-A2	4
22	4217399	Kunststof eindkapje rits Solidare	2
21	4452470	Kunststof eindkapje onderzijde	2
20	4210152	zelflapper 4,2x45 VK/KK DIN7982 RVS-A2	6
19	4217326	Geleiderblok Solidare links compleet	1
18	4217328	Geleiderblok Solidare rechts compleet	1
17	6252500	Treklijst Solidare	1
16	4217185	inbusbout M6x16 CK DIN912 RVS-A2	2
15	4217395	Eindkap lagerblok Solidare links	1
14	4217386	Lagerbloksel Solidare compleet	1
13	4217397	Eindkap lagerblok Solidare rechts	1
12	4217390	Geleiderplaat Solidare links	1
11	4217392	Geleiderplaat Solidare rechts	1
10	6252380	Zigleider Solidare	2
9	4217080	Koordschijf buis 85 piazzola kunststof	2
8	6253382	Buis staal 85x1,25 spec.	1
7	4000953	Meenemer	1
6	4000952	Somfy adapter buis 85	1
5	4000951	Somfy meenemer serie 50/80 buis 85	1
4	4000840	Somfy motor LT50	1
3	4000162	metaalschroef VK/KK M6x20 DIN965 RVS-A2	4
2	4215110	Alu motorsteun	1
1	4215114	Veranda lagerblok kunststof compleet	1
pos	number	benaming	aantal

ALUMINIUM
TOEPASSINGEN

A3
Solidare-000

Positie:
 00

Aanvraagnummer:
 05-01-2017

Project:
 Solidare basissysteem

Schaal:
 1:8



Solidare Assembly & Installation Manual V.01

Aluminium Verkoop Zuid B.V.

Kanaaldijk 11 • 5683 CR Best • The Netherlands

T +31 499 328 600 **E** verkoop@avz.nl

Sun Stock Holland B.V.

Talhoutweg 16 • 8171 MB Vaassen • The Netherlands

T +31 578 677 222 **E** info@sunstock.nl

