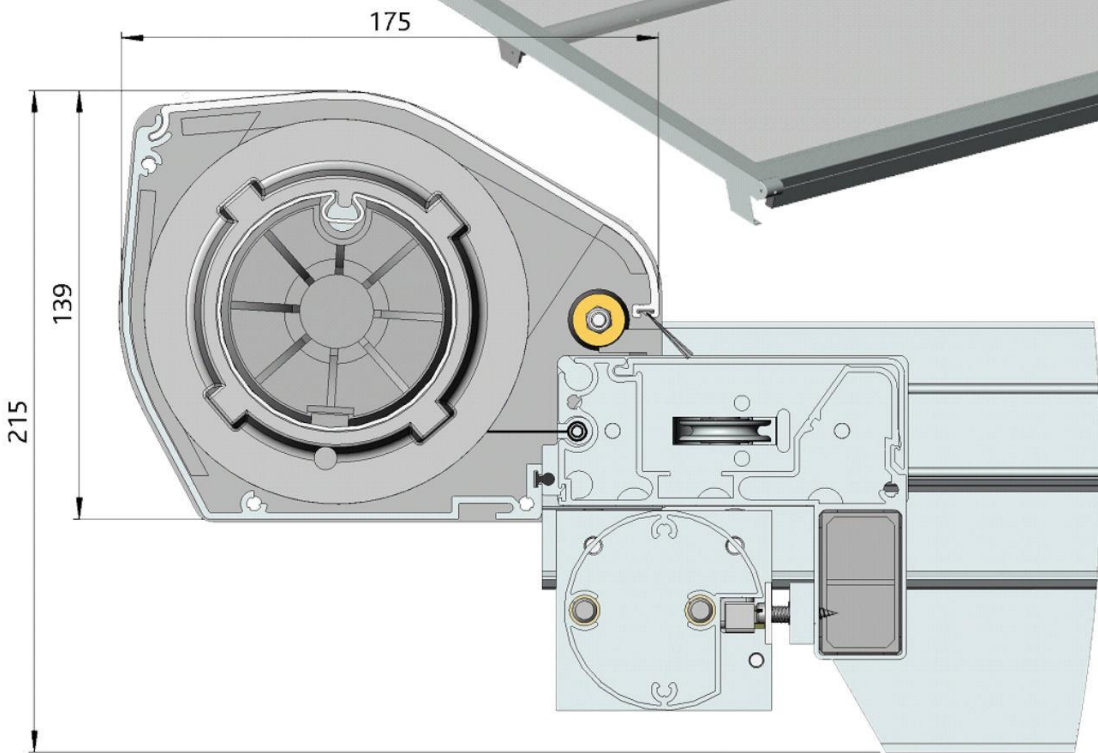
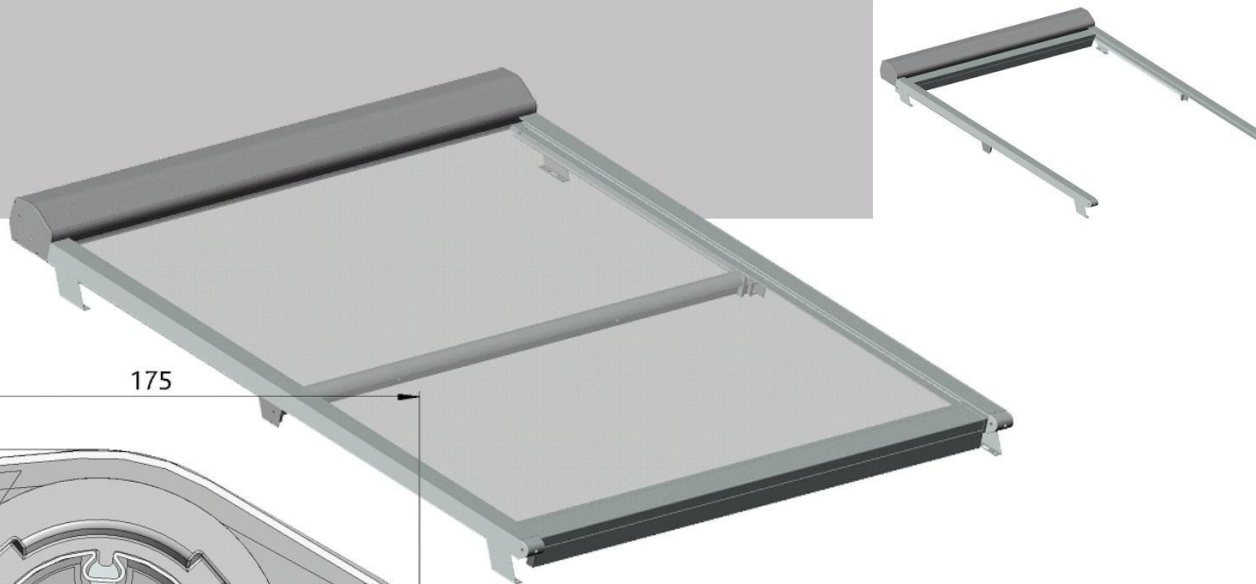


Manufacturing and installation instruction

Summerlight[®] XL

Conservatory awning





**** ATTENTIE ****

AVZ accepts no liability for any errors in this manual,
Or for any damages of losses resulting of the use thereof.

General Information Summerlight® XL Conservatory awning

Maximum and minimum width*

Width	Projection
maximum 600 cm	minimum 400 cm

* This has been tested with acrylic fabric in lanes.

Note:

At a free span of > 4 meter the front profile will slightly sag. This has no effect on the system's functionality, but may look somewhat untidy. In a situation where the front profile will be taut along a straight line it could be sensible to opt for a coupled system with two shorter front profiles.

Fabric winding method

The fabric of the Summerlight® XL is wound bottom wise.

Cut sizes

	Operated by ASA motor	Operated by Somfy motor
Top cover	21	21
Rear cover	20	20
Fabric roller	62	62
Support tube	117	117
Guide profile	*	*
Upper front profile	171	171
Lower front profile	170	170
Side guide	175	175
Fabric	150	150

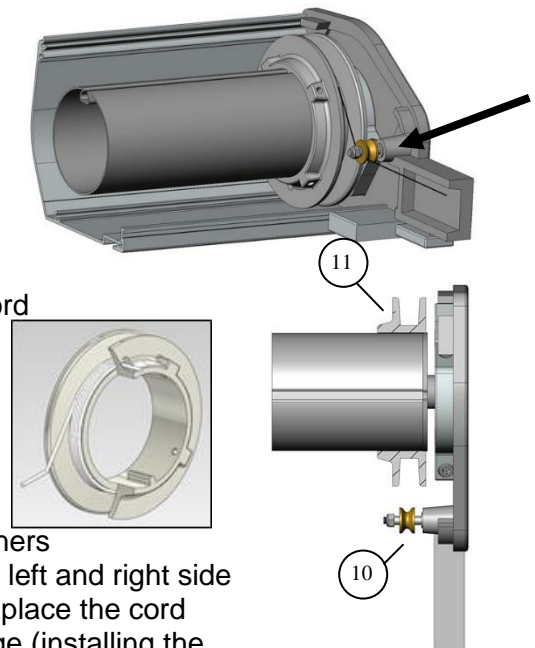
* Shortened till half the side guide.

Motor diagram

Width	Projection
	maximum 400 cm
maximum 600 cm	50 Nm

Assembly of Summerlight® XL Conservatory awning

1. Shorten the longerons to the correct lengths.
2. On the operating side make an opening in the bottom cover, for the motor cable.
3. Screw the bottom part of the motor support and the bearing block on the side covers. NOTE: Install the bearing block with the broad collar against the side plates. Do not yet secure the motor support completely because the motor cable has to be fed through.
4. Screw the side plates to the bottom cover.
5. Wind the fabric onto the fabric roller bottom wise.
6. Slide the cord pulleys (11) onto the roller, but do not yet secure them.
7. Wind the cord at least three times round the pulleys from the top. The required length per side guide is determined as follows: $2x \text{ the height} + 2x \text{ the width}$.
8. On the non-operating side install the bearing plug in the fabric roller. Then slide the spacer ring 4210 497-000 and the precision bearing across it. Install adapter bush 4460 020-080 to make the precision bearing fit exactly. On the operating side slide the motor into the fabric roller.
9. Install the roller in the housing and secure it with the upper parts of the bearing block and the motor support.
10. Install the cord pulleys (11) opposite the runners (10) on the top cover supports and secure them.
11. To make sure that the cord will nicely roll up on the cord pulley. Place always 4 turns next to each other on the pulley (see drawing). To make sure that the cord will stay on the pulley during transport, use double-sided tape on the inside of the cord pulley and place afterwards the cord on the tape.
12. Take the lower front frame and mount the cord tensioners on the bevelled side. Install the cord tensioners at the left and right side in the lower frame with screws 4452 080-000. How to place the cord through the front frame shows the drawing at next page (installing the springs). NOTE: Use the self-tapping sunk-head screws; the heads should never protrude!!
13. Slide the middle pulley into the lower front profile.
14. Slide the front frame across the fabric.
15. Screw an eye and nut on both guide blocks.
16. Screw the guide blocks onto the lower front frame.

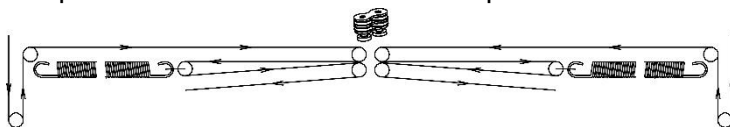


Further details

- a. For projections of 2,5 mtr., use the extra support tube.
- b. Use always the side guides 4215 226/228-..., in combination with the U-supports 4215 240-...

Installing the springs

The springs are attached to the guide pulleys by means of screw eyes. At the other end of the spring a pulley is attached. The middle pulley is slid into the space in the lower front profile and slid up to the middle of the lower front profile.



NOTE: Check to see that the cord runs across all pulleys!! Only then give the spring the required pre-tensioning.

Assembly of Summerlight® XL Conservatory awning

Assembly of the guide profile and the support tube

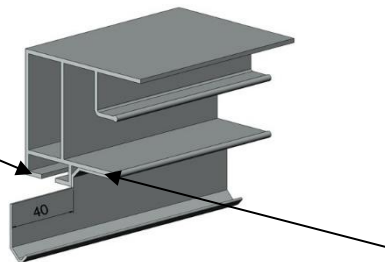
Fasten the guide profile under the side guide (see next drawing). The length is determined by the place where the support tube has to stop; the guide profile should reach to the magnet at the (middle) side guide support. Fasten the magnets onto the support tube and the steel plates onto the lower front frame (both profiles are marked).

Distance of both sides about $\frac{1}{4}$ of the width.

After installation of the Summerlight XL, slide the stop covers down. Open the front profile till after the side channel. Install the support tube (with the magnets and guide blocks) from the underside into the guide profile and replace the stop cover with the magnet to the guide profile.

Installation of the guide profile and the support tube

Cut at 40 mm from the side, the upper part of the side channel until the break. Then remove the angle piece.



Screw in the corner or – rivet to the side guide.

Tensioning the fabric

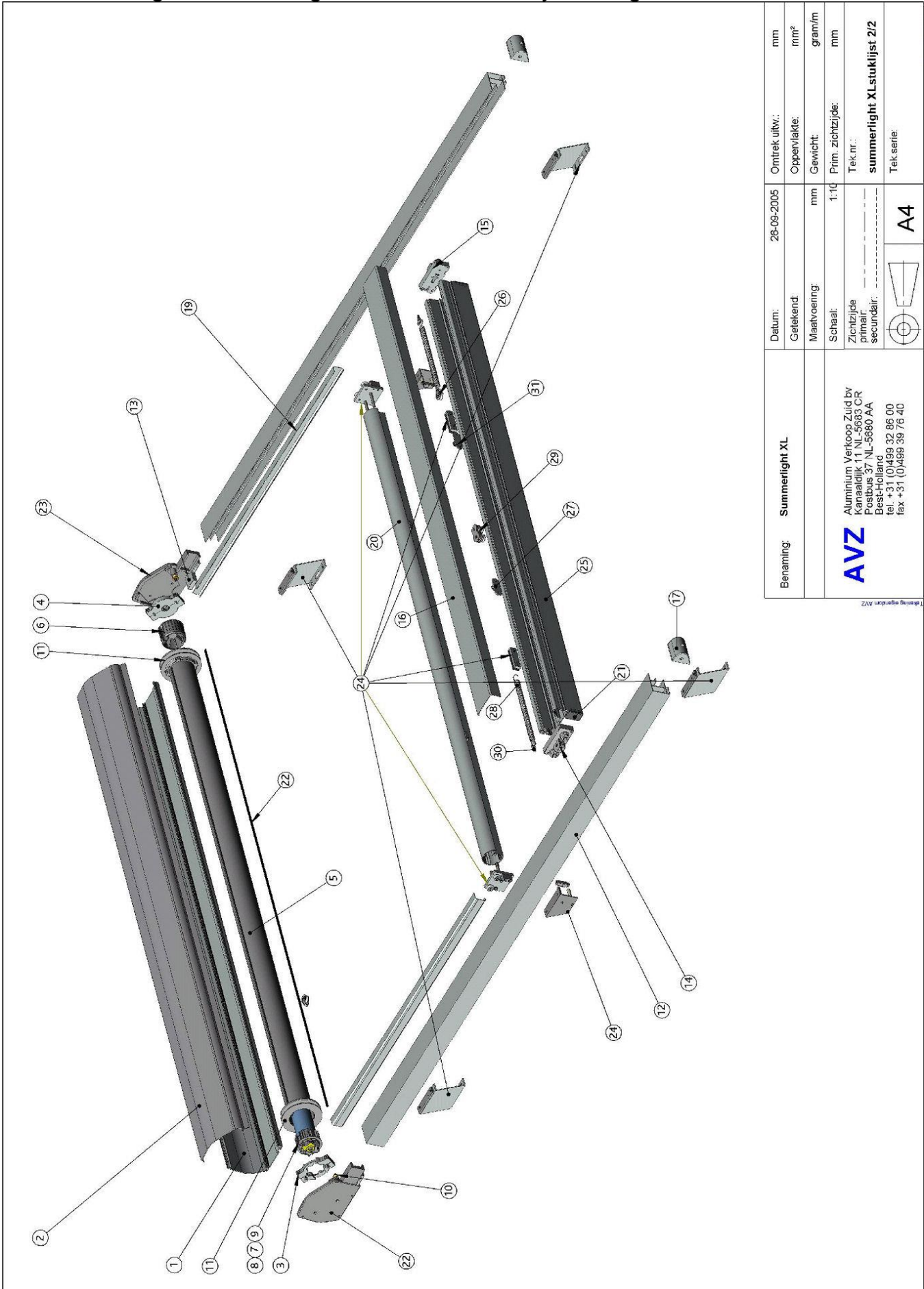
Extend the awning to its maximum and note when the spring has the least tension. Mark the point where the awning front profile is then positioned. When pulling up the awning, stop it at that point and tension the spring so that the fabric is sufficiently taut.

NOTE: Do not stretch the springs beyond 60% of their own length.
 Spring 35 cm: max. 350 cm projection
 Spring 57 cm: from 350 cm to max. 500 cm projection

Overhang

Measured from the last support on the veranda roof, a maximum overhang of 1 m can be realized. In that case an extra support has to be installed for each side guide. The mutual distance between the supports has to be well-spaced.

Drawing of Summerlight® XL Conservatory awning (page 1/2)



Benaming:	Summerlight XL	Datum:	28-09-2005	Omtrek uitvo.:	mm
		Getekend:		Oppervlakte:	mm ²
		Maatvoering:	mm	Gewicht:	gram/m
		Schaal:	1:10	Prim. zichtsijde:	mm
		Zichtsijde		Tek nr.:	
		primair			
		secundair			
					summerlight XL stuklijst 2/2
					Tek serie:
					A4

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Drawing of Summerlight® XL Conservatory awning (page 2/2)

Item number	Description	Qty.	Connection
4210 142-000	Plate screw 4,2x32 countersunk Philip head Din 7982	5	Top cover support to bottom cover
4210 142-000	Plate screw 4,2x32 countersunk Philip head Din 7982	4	Alu guide block to front profile
4452 080-000	Plate screw 4,2x16 countersunk Philip head Din 7982	4	Alu cord tensioner to lower front profile

- * Spare parts for support tube consists of:
- 2 pcs. side guide blocks and slide bushes
 - 4 pcs. side guide supports
 - 2 pcs. side guide supports with stop covers
 - 2 pcs. magnet closures incl. fixing material

Top cover supports, cord pulleys, alu end bearing, alu guide plate, alu guide block and alu cord tensioner are available in a set: Top cover support set conservatory awning 4215 105-...

Pce.	Qty.	Item number	Name
1	1	6295 612-000	Rear/bottom cover conservatory awning
2	1	6295 640-000	Top cover Summerlight
3	1	4215 110-000	Alu motor support
4	1	4215 112-000	Alu bearing block
5	1	6253 190-000	Roller 78
6	1	4470 082-000	Synthetic bearing plug 78
7	1	4001 336-000	Somfy motor ALTUS 60 RTS
8	1	4000 909-000	Friction ring
9	1	4000 926-000	Adapter serial 60
10	2	4215 171-000	Spindle/nut M5 with runner/DUB
11	2	4215 120-000	Alu Cord pulley
12	2	6295 550-000	Alu side guide Summerlight
13	2	4215 124-000	Alu guide plate
14	1	4215 130-000	Alu guide block, left
15	1	4215 132-000	Alu guide block, right
16	1	6295 562-000	Alu upper front profile Summerlight
17	2	4215 142-000	Alu end bearing
18	1	4215 190-080	Brush for top cover
19	2	6295 590-000	Alu guide profile
20	1	6295 600-000	Alu support tube
21	2	4215 288-080	Synthetic sealing cap
22	1	4215 100-000	Top cover support, left
23	1	4215 102-000	Top cover support, right
24	1	4215 290-006	Spare parts for support tube
25	1	6295 580-000	Alu lower front profile Summerlight XL
26	2	4215 158-000	Stainless steel pulley for cord 2,5 mm with synth. runner
27	1	4215 164-000	Cord tensioner
28	2	4215 180-000	Stainless steel spring 18,5 mm, length 300 mm
29	1	4215 210-000	Middle pulley
30	2	4215 172-068	Screw eye with mutter M6
31	1	4215 166-000	Cord tensioner, right