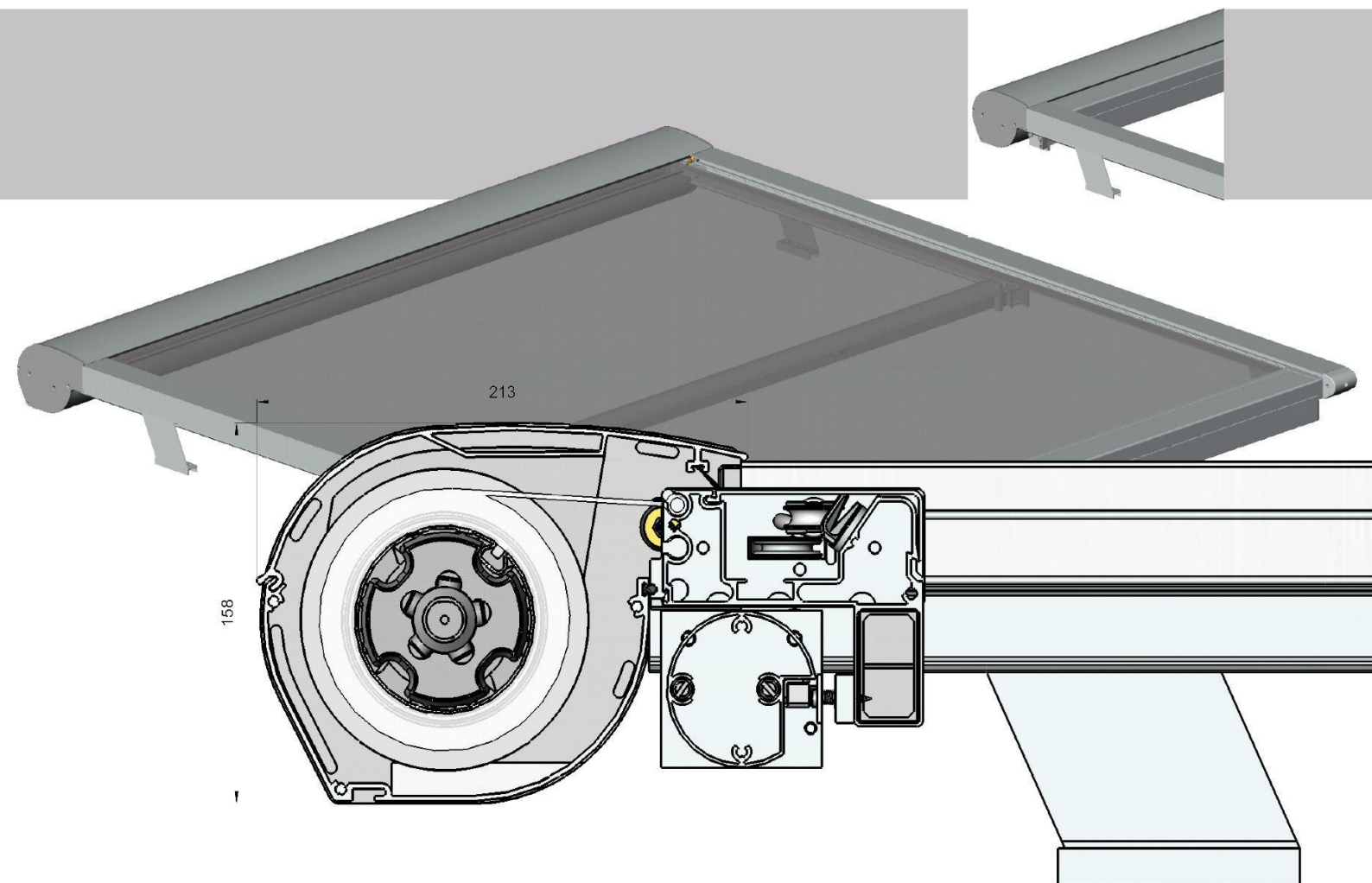


Manufacturing and installation instruction

Summerlight® Verso XL

Conservatory awning





**** ATTENTION ****

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

General Information Conservatory awning Summerlight® Verso XL

Maximum and minimum width*

| Width | Projection |
|----------------|----------------|
| maximum 600 cm | maximum 400 cm |

* This has been tested with acrylic fabric in panels.

NOTE:

- The maximum fabric is 16 m² per single awning. This has been tested with acrylic fabric in panels.
- At a free span of >4 metres 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® Verso XL is wound top 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 |
| Guiding profile | * | * |
| Upper front profile | 171 | 171 |
| Lower front profile | 170 | 170 |
| Side guide | 210 | 210 |
| Fabric | 150 | 150 |

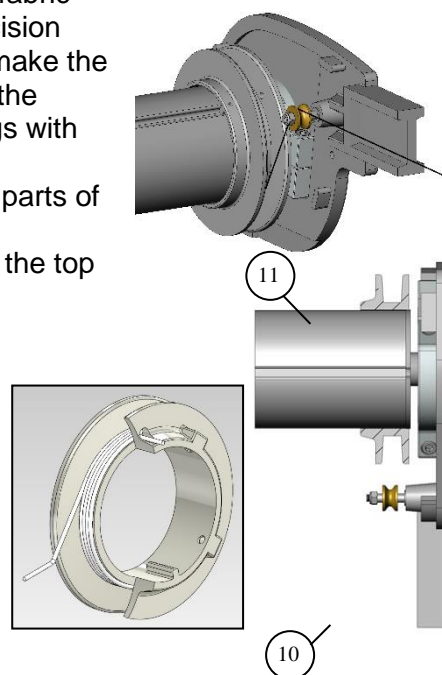
* Shorten up to half of the side guide.

Motor diagram

| Width | Projection |
|----------------|----------------|
| | Maximum 400 cm |
| maximum 600 cm | 50 Nm |

Assembly of Conservatory awning Summerlight® Verso XL

1. Shorten the lengths 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 top wise.
6. Slide the cord pulleys onto the roller but do not yet secure them.
7. Wind the cord at least three times round the pulleys from the bottom. The required length per side guide is determined as follows: $2x \text{ the projection} + 2x \text{ the width}$.
8. On the non-operating side install the bearing plug in the fabric roller. Then slide 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. Always spray the end bearings with 'Kwiklube' lube spray.
9. Install the roller in the housing and secure it with the top parts of the bearing block and 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 pulling frame and mount the cord tensioners on the bevelled side. Use screws 4452 080-000 to install the cord tensioners on the left and right of the lower front profile. See the drawing on next page for the routing of the cord through the pull section (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 pulling frame across the fabric.
15. Screw an eye and nut on both guide blocks.
16. Screw the guide blocks onto the lower pulling frame.



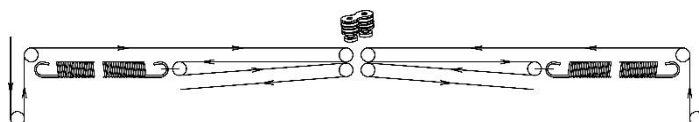
Further details

- a. Use the roller support profile from about 2,5 m projection.
- b. Always use side guides 4215 226/228-... in combination with U-shaped 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 Conservatory awning Summerlight® Verso XL

Assembly of the guide profile and the support tube

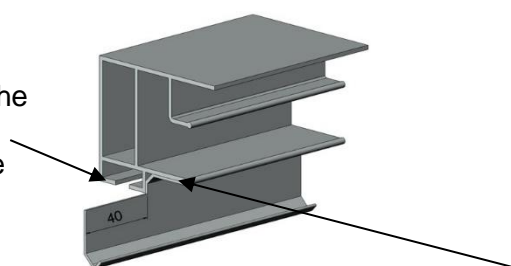
Fasten the guide profile under the side guide (see next drawing). The length is determined by the place where the support tube has to stop; the guide profile should reach to the magnet at the (middle) side guide support. Fasten the magnets onto the support tube and the steel plates onto the lower front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

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

After installation of the Summerlight® Verso 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.

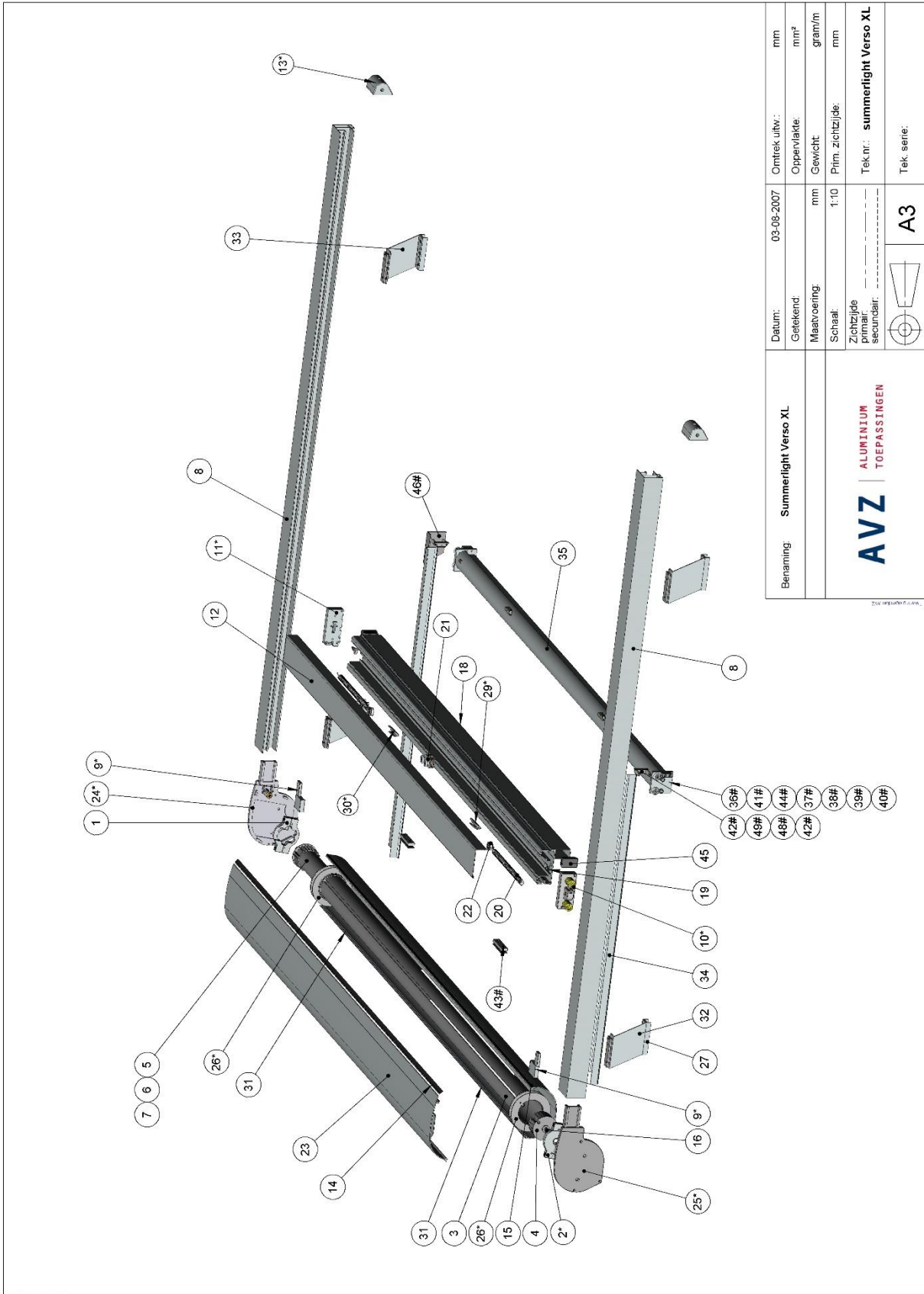
Spring 35 cm: max. 350 cm projection



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.

Exploded view Conservatory awning Summerlight® Verso XL (page 1/2)



| | | |
|--|---------------------|---|
| Benaming: Summerlight Verso XL | Datum: 03-08-2007 | Onttrek uitw.: mm |
| | Getekend: | Oppervlakte: mm ² |
| | Maatvoering: mm | Gewicht: gram/m |
| | Schaal: 1:10 | Prim. zichtzijde: mm |
| | Zichtzijde primair: | Tek.nr.: summerlight Verso XL |
| | secundair: | Tek. serie: |
|  | |  A3 |

- stuklijst 2/2 -

Exploded view Conservatory awning Summerlight® Verso XL (page 2/2)

| Art.nbr. | Description | Nbr. | Connection |
|--------------|---|------|-------------------------------------|
| 4210 142-000 | Self-drilling screw 4,2x32 CS/PH DIN 7982 | 6 | Top cover support to bottom cover |
| 4210 142-000 | Self-drilling screw 4,2x32 CS/PH DIN 7982 | 4 | Alu guide bloc to front profile |
| 4452 080-000 | Self-drilling screw 4,2x16 CS/PH DIN 7982 | 4 | Clamp cleat to bottom front profile |

* = Top cover supports, cord pulleys, alu end bearing, alu guide plate, alu guide blocs and alu clamp cleats are available in a set. Set Summerlight Verso 4215 106-...

= Spare parts set for support tube.

| Piece | Nbr. | Item nbr. | Description |
|-------|------|--------------|---|
| 49# | 4 | 4210 984-000 | Cylinder hexagon screw M4x35 stainless |
| 48# | 4 | 4215 202-000 | PVC distance bush 6,2x10x25 mm |
| 47# | 1 | 4215 300-090 | Intermediate support left |
| 46# | 1 | 4215 302-090 | Intermediate support right |
| 45 | 2 | 4215 288-000 | PVC sealing cap 50x30 mm |
| 44# | 4 | 4452 019-000 | Cylinder hexagon screw M5x20 stainless |
| 43# | 2 | 4215 286-090 | Magnet plate springy |
| 42# | 4 | 4215 285 | Alu magnet |
| 41# | 2 | 4215 274-000 | Zinc-plated steel plate 30x20x10 |
| 40# | 4 | 4000 155-000 | Screw with countersunk Philips head M6x22 stainless |
| 39# | 4 | 4215 278-000 | Wheel and bush |
| 38# | 4 | 4210 527-000 | Hexagon nut with nylon ring M8 stainless |
| 37# | 4 | 4215 270-000 | Pin for central plate pergola awning |
| 36# | 2 | 4215 280-001 | Alu central roll plate 70x65x10 silver anodised |
| 35 | 1 | 6295 600-000 | Alu support tube |
| 34 | 2 | 6295 590-000 | Alu guide profile |
| 33 | 2 | 4215 229 | Side guide support high 100 mm right |
| 32 | 2 | 4215 227 | Side guide support high 100 mm left |
| 31 | 1 | 6295 622 | Rear/bottom cover pergola awning |
| 30* | 1 | 4215 166-000 | Clamp cleat right |
| 29* | 1 | 4215 164-000 | Clamp cleat left |
| 28 | 1 | # | Fabric |
| 27 | 4 | 4215 240-006 | Support U-profile 15x30x15x3 mm |
| 26* | 2 | 4215 122-000 | Nylon cord pulley |
| 25* | 1 | 4215 101 | Top cover support Summerlight Verso, left |
| 24* | 1 | 4215 103 | Top cover support Summerlight Verso, right |
| 23 | 1 | 6295 652-000 | Top cover Summerlight, flat |
| 22 | 2 | 4215 158-000 | Stainless pulley for cord 2,5 mm with nylon wheel |
| 21 | 1 | 4215 210-000 | Central pulley for cord 2,5 mm |
| 20 | 2 | 4215 180-000 | Stainless spring 18,5 mm, length 300 mm |
| 19 | 2 | 4215 172-068 | Screw eye with nut M6 |
| 18 | 1 | 6295 580-000 | Alu bottom profile Summerlight XL |

| Piece | Nbr. | Item nbr. | Description |
|--------------|-------------|------------------|-------------------------------------|
| 17 | 1 | 4215 150-000 | Cord 2,5 mm |
| 16 | 1 | 4460 020-080 | Nylon adapter bush |
| 15 | 1 | 4211 130-080 | Nylon sealing |
| 14 | 1 | 4215 190-080 | Bristle for top cover |
| 13* | 2 | 4215 142-000 | Alu end bearing |
| 12 | 1 | 6295 562-000 | Alu upper pulling frame Summerlight |
| 11* | 1 | 4215 132-000 | Alu guide bloc, right |
| 10* | 1 | 4215 130-000 | Alu guide bloc, left |
| 9* | 2 | 4215 124-000 | Alu guide plate |
| 8 | 2 | 6295 550-000 | Alu side guide Summerlight |
| 7 | 1 | 4000 926-000 | Adapter serial 60 |
| 6 | 1 | 4000 909-000 | Friction ring |
| 5 | 1 | 4001 336-000 | Somfy motor ALTUS 60 RTS |
| 4 | 1 | 4470 082-000 | Nylon bearing bung |
| 3 | 1 | 6253 190-000 | Steel roller 78 |
| 2* | 1 | 4215 112-000 | Alu bearing bloc |
| 1 | 1 | 4215 110-000 | Alu Motor support |