



Technical card

Veranda sunblind
VZ510

HAROL®

Summary

1. General	page 4
2. The profiles	page 4
3. Other components	page 6
4. Technical data	page 9
5. Weight	page 9
6. Operation	page 9
7. Fabric cover	page 10
8. Measuring and assembling	page 11
9. Colours	page 11
10. Fixings	page 11
11. Packing	page 11
12. Use and maintenance	page 11
13. Security	page 11
Annex : Drawings	page 12
Order form Veranda sunblind VZ510	page 14

Harol reserves the right to make alterations of the product without prior notice.

1. General

The VZ510 veranda sunblind is specially designed for installation above the veranda. The advantage of this type of installation is that the rays of the sun which cause excessive heat within the conservatory area, are prevented from striking the glazing.

The awning is rolled up in a roller box fixed to the side guides. These are attached to the conservatory mullions by means of a two-part system of fixing. There is an air space between the side guides and the awning. This is to ensure adequate ventilation for the area between the awning and the conservatory glazing. The system for attaching the sunblind side guides to the roof mullions is so designed as to enable an minor seating tolerances in the roof sections to be easily taken up. The entire system is made of non-corroding materials.

2. The profiles

2.1. Guides

- Material : extruded aluminium, powdercoated
- Colour : the standard colours are white (RAL9016) or Harol brown (similar to RAL8019)
- Two types :
 - * End guides : installed on outer sides, with a front rail slot on one side only
 - * Centre guides : installed centrally, with a front rail slot on either side
- The profiles have a channel into which the bracket support pins fit
- Aluminium extrusions coated to match the frame

2.2. The roller

- Material : a welded tube, formed from a steel strip Sendzimir-galvanised, with a groove for attaching the fabric
- Function : rolling the blind fabric up and down
- Diameters : $\varnothing 78 \times 1 \text{ mm}$
 $\varnothing 85 \times 1,2 \text{ mm}$ (standard for widths over 4 m).

2.3. The Fabric Clip profile

- Material : consists of extruded PVC clips
- Function : attaching the fabric in the fabric slot without the use of screws, so that the fabric can be removed from the front instead of sliding off sideways
- Diameter of the PVC fabric retainer : $\varnothing 3 \text{ mm}$
- Advantage : quick and easy fabric changing

2.4. The roller box

- Material : press formed from 1,2 mm thick pre-coated aluminium strip, and provided with a protective foil liner
- Colour : as standard coated in white (RAL9016) or Harol brown (similar to RAL8019)
- Dimension : 145 mm x 215 mm
- Consists of two sections :
 - * a removable chamfered upper section or cover
 - * a fix lower section
- An extra reinforcement support is fitted in the middle of each section

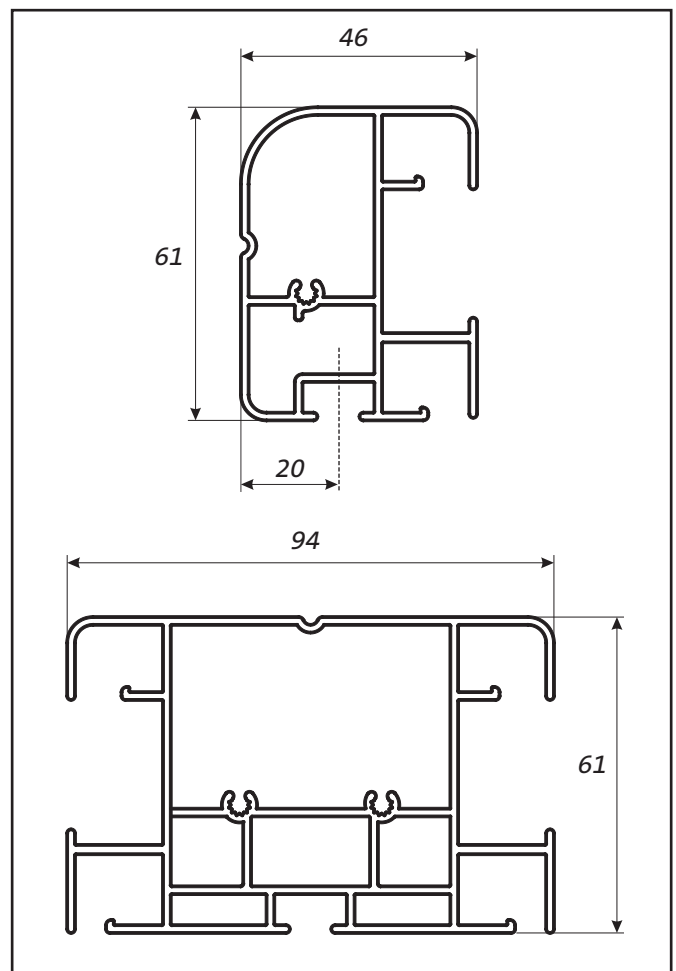


Fig. 1 : Guides

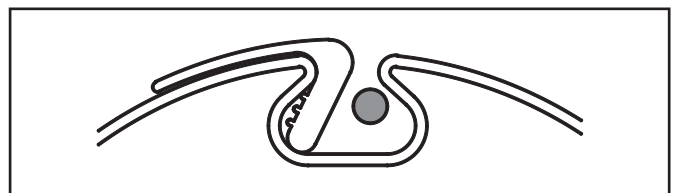
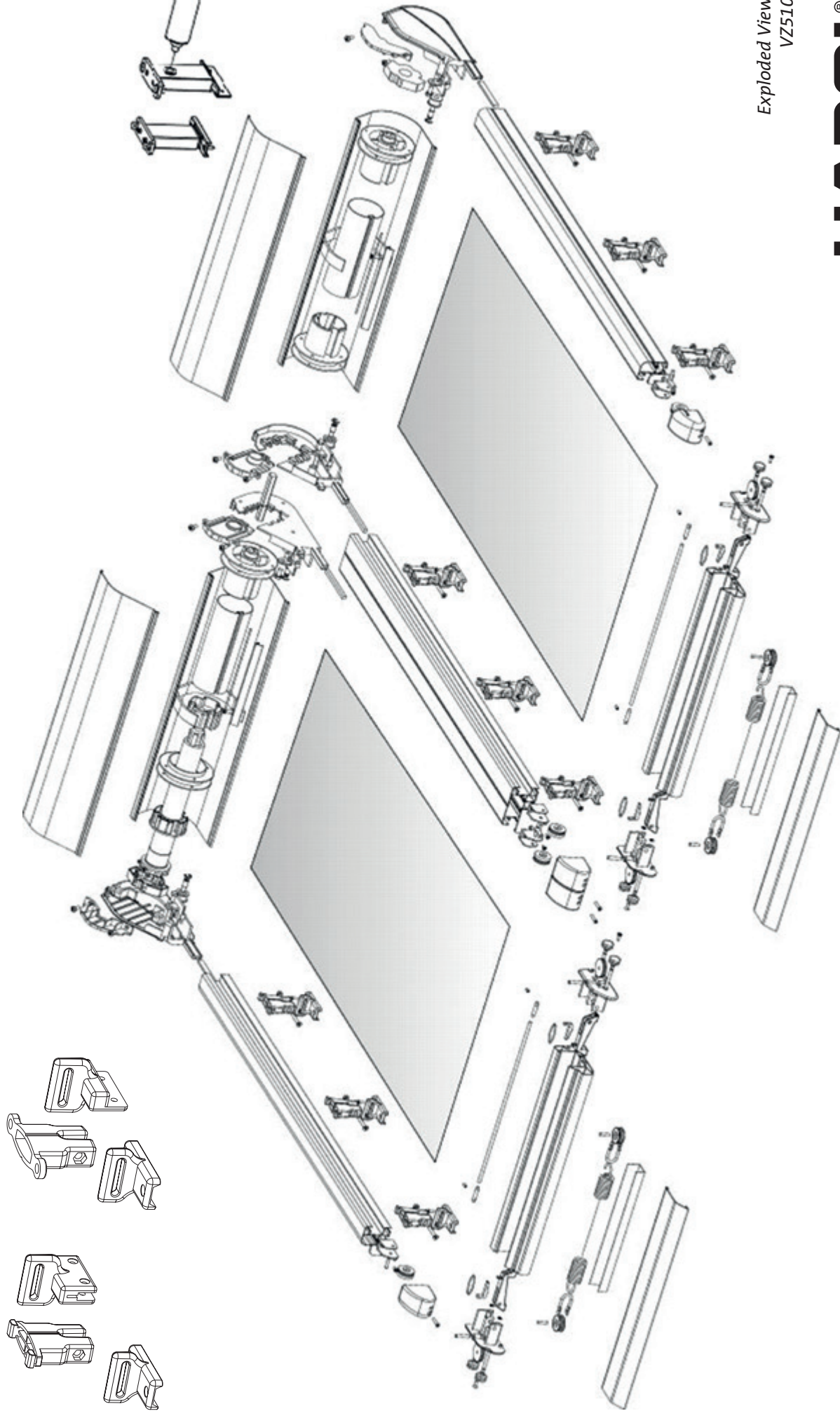


Fig. 2 : "Clip-on clip-off" profile



Exploded View
VZ510

HAROL®

2.5. The Front Rail

- Material : extruded aluminium, powdercoated
- Colour : as standard white (RAL9016) or Harol brown (similar to RAL8019)
- Function :
 - * The lower section : provided with 1 groove.
 - * The closing section : is clipped to the lower section
 - * This profile runs along the slots in the side guides

2.6. The Intermediate Roll(s) for the inclined surface

- Material : extruded aluminium tube $\varnothing 50$ mm x 2 mm wall-thickness, powdercoated
- Function : Used to support the fabric on longer projections
 - * Over 5001 mm extension : Included as standard and installed in the middle of the projection
 - * Projection smaller than 5001 mm : Intermediate roll in option

3. Other components

3.1. The Consoles (or End Checks)

- Material : hydraulic cast aluminium
- Colour : white (RAL9016) or Harol brown (similar to RAL8019)
- Dimensions : 145x215 mm

3.2. The Carriages

- Material : cast PVC (Luran)
- Colour : as standard white, brown and black (depending on the colour of the frame).
- Function :
 - * connection of front rail and side guides, fitted with two carriage wheels
 - * are mounted at the end of the front rail

3.3. The Tensioning System

- Material : the castors, axles, etc. are made of non-corroding materials
 - Function : the entire fabric and front rail are kept under constant tension by means of a spring, a rope and a $\varnothing 2,5$ mm cable
- The constant spring tension ensures that the fabric remains taut in any position, to ensure adequate ventilation between the fabric and the glazing

3.4. Guide Fixing Brackets

Standard aluminium support A:

- Material : aluminium
 - Colour : coated to match the frame
 - Function : used for any type of glass-covered conservatory framework and for all wooden pergolas and veranda systems (for this see fig. 8)
- The clearance between the guides and the mullions can be increased by means of extension points (see fig.)

Option:

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

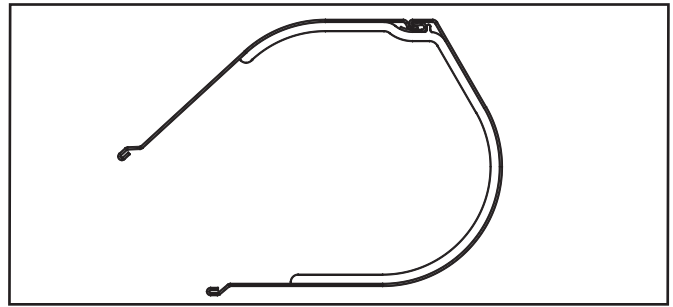


Fig. 3 : Box

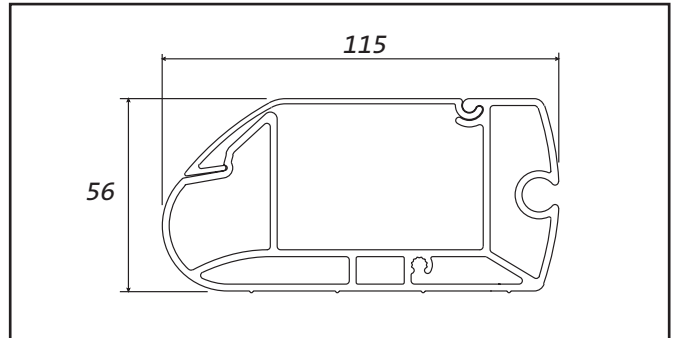


Fig. 4 : Front rail

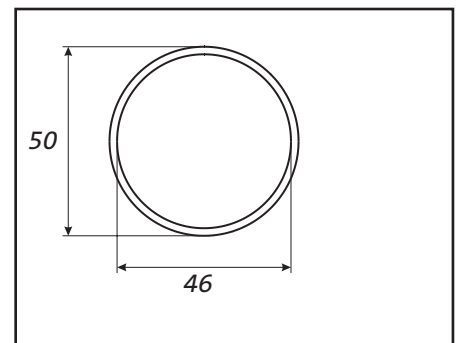


Fig. 5 : Intermediate roll

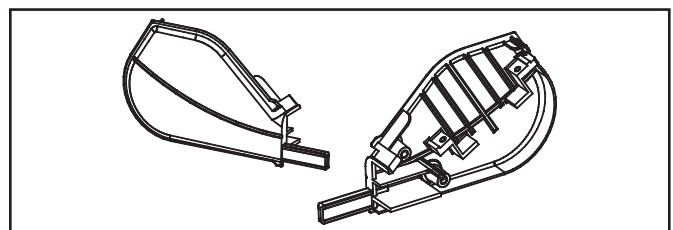


Fig. 6 : Consoles

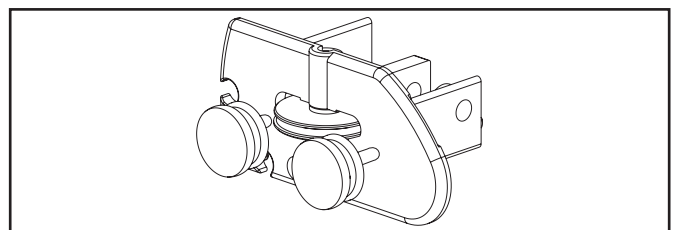


Fig. 7 : Carriage

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

* The attachment system is in two parts :

- The upper part : Slides into the groove below the side and central guides
- The lower part, exists in two versions :
Higher attachment point - low profile A :
 - For any type of glass-covered aluminium conservatory framework and for all wooden pergolas and veranda systems
 - Is screwed on to the wood or into the groove at the top of the mullions through the capping section into which the rubber seal is fitted. (mounting A)**Higher attachment point - high profile B :**
 - For all types of conservatories with the glass beneath where the mullions have an extended leg above the glazing
 - Is fixed to the mullion with two bolts. (mounting B)

- Additional fixing possibilities :

- * If fixing methods A or B are not possible, an option is to fix against a wall (fig. 10). For this, angled profiles can be used in combination with flat attachment points A
- * The upper- and lower part fixings are slotted to allow for any minor seating tolerances in the roof sections
- * The maximum distance between two fixing points along a guide is max. 1600 mm

Remark : In case of an intermediate roll, the awning will be mounted on higher aluminium attachment points of 120 mm. This should only be implemented with stable veranda profiles where there is no risk of flipping over. If necessary, support all conductors.

3.5. Coupling two side guides.

To connect 2 veranda sunblinds, coupling parts are available

There are two options :

* The coupling plate :

- Material : Aluminium
- Function :

* The plate is placed underneath the 2 lateral guides. In the plate there are 4 holes provided for the securing screws, which slide into the groove of the guides (2 per guide), and so the plate is screwed down. In the middle of the plate there are holes provided for the attachment point.

* When the attachment point is directly mounted to the left or right guide, the coupling will be done by mounting the plate behind the attachment point.

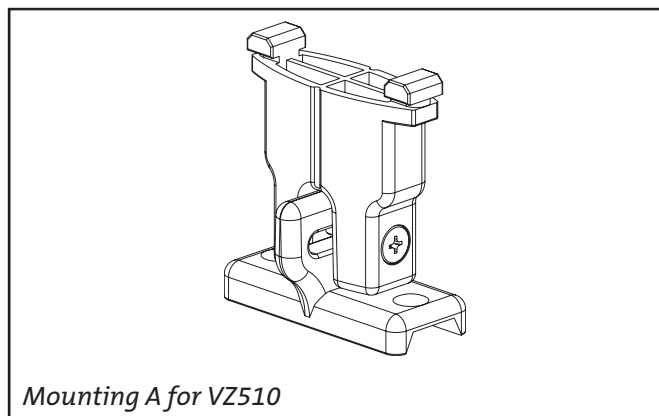


Fig. 8 : Standard aluminium support

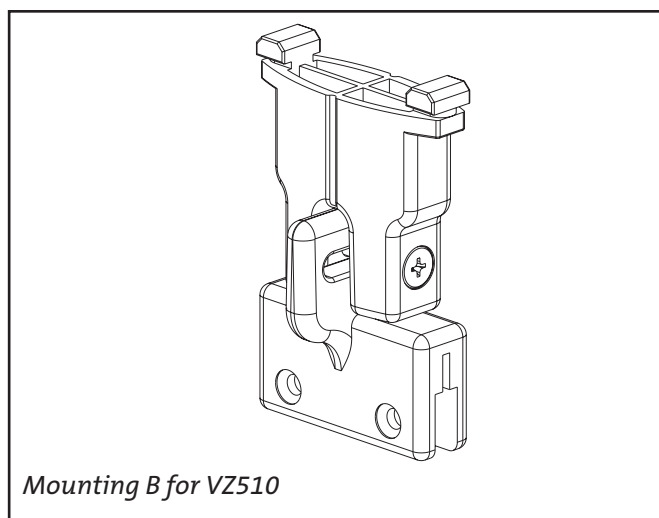


Fig. 9 : Support

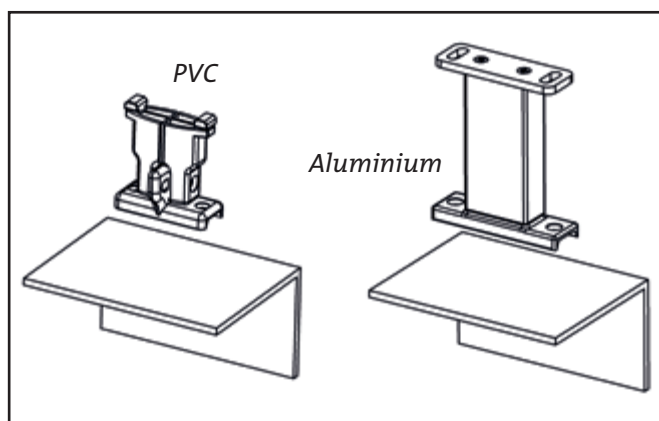


Fig. 10 : Mounting against the wall

Type	Number of elements	Maximum width in meters															Maximum surface	Number of elements	Number of motors	
		1	2	3	4	4,5	5	6	7	8	9	10	11	12	13,5	18				
Type 1	1 element		1 part														18 m²	1	1	
Type 2	2 elements				2 parts													36 m²	2	1
Type 3	3 elements							3 parts									54 m²	3	2	
Type 4	4 elements									4 parts								72 m²	4	2

Table 1 : Technical possibilities

*** The angle coupling :**

- Material : Aluminium

- Function :

* The angle is placed underneath the 2 side guides. The horizontal surface, which is placed underneath the guides, has 2 holes for the screws. The screws slide into the grooves of the guides (1 per guide) and so the angle is screwed down.

* The vertical surface has 1 hole for fixing the attachment points type A or B.

* Only used when the attachment point is mounted in the middle.

There are 2 different sets, which can be ordered as an option.

*** Coupling Plate Set :**

- Consists of :

The coupling plate and the attachment means

- Function :

* When the attachment point is mounted in the middle

* When using the extended attachment point, the profile higher attachment point is directly fixed to the coupling plate.

In that case, the upper part of the attachment point will not be used

*** Coupling Duo Set :**

- Consists of :

The coupling plate, the angle coupling and the attachment means

- Function :

* When the standard attachment point is placed in the middle, the upper part should be replaced by the angle coupling.

* When the standard attachment point is placed left or right on the guide, the coupling will be done independently of the attachment point, by mounting the coupling plate behind the attachment point.

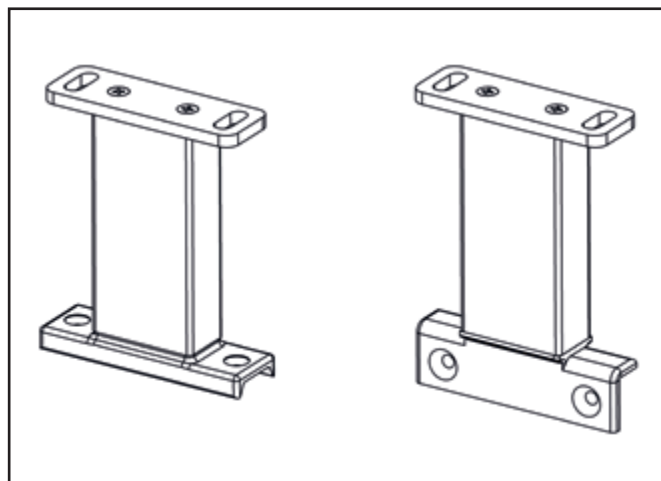


Fig. 11 : Higher attachment points

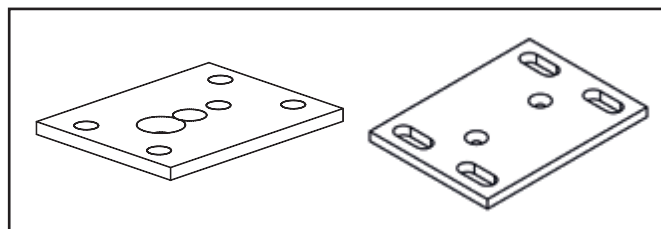


Fig. 12 : Coupling plate

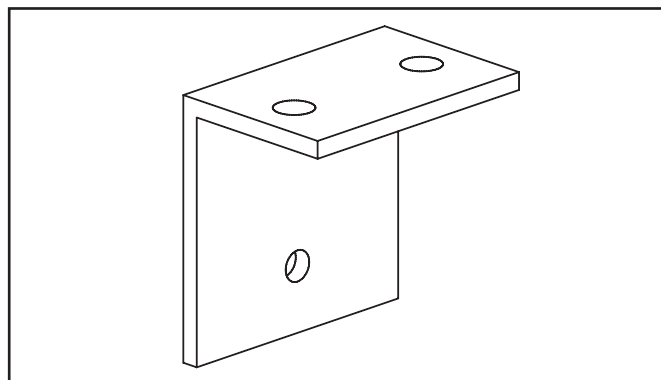


Fig. 13 : Angle coupling

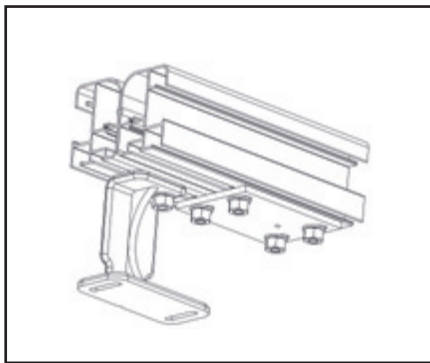


Fig. 14

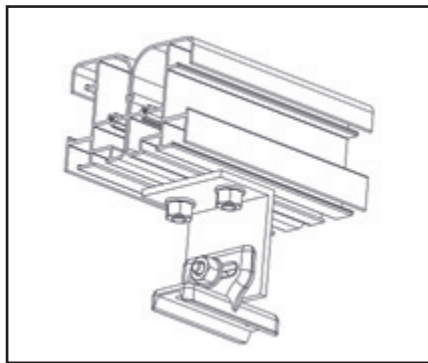


Fig. 15

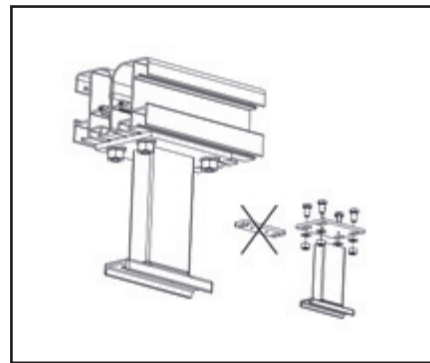


Fig. 16

4. Technical data

- Minimum width per blind : **2 m**
- Maximum width per section : **4,5 m**
- Maximum projection : **6 m**
- Maximum fabric area : **18 m²**

The different (box) sections are packed separately for connection on site.

5. Weight

- The applied weight = **Width X 15 kg per meter (width)**

6. Operation

6.1. Motor operation

- Drive via tubular motors : 230 Volt (50Hz) :
 - * Fitted with automatic post-regulation, this means the motor slows at approx. 10 cm before the bottom bar closes against the roller box so that it stops without forcibly hitting it.
 - * Fitted far left and/or far right as required
- Cable :
 - * As standard 3 m
 - * Optionally 5 or 10 m
 - * The distance can be increased by fitting a junction box
- A single-pole surface-mounted switch and plug are supplied as standard

6.2. Automation

- Accessories :
 - * Relay boxes
 - * Wind-and-Solar control
 - * Time switches
 - * Remote control
 - * ...
- (For this, see the Harol-Domotics-map)

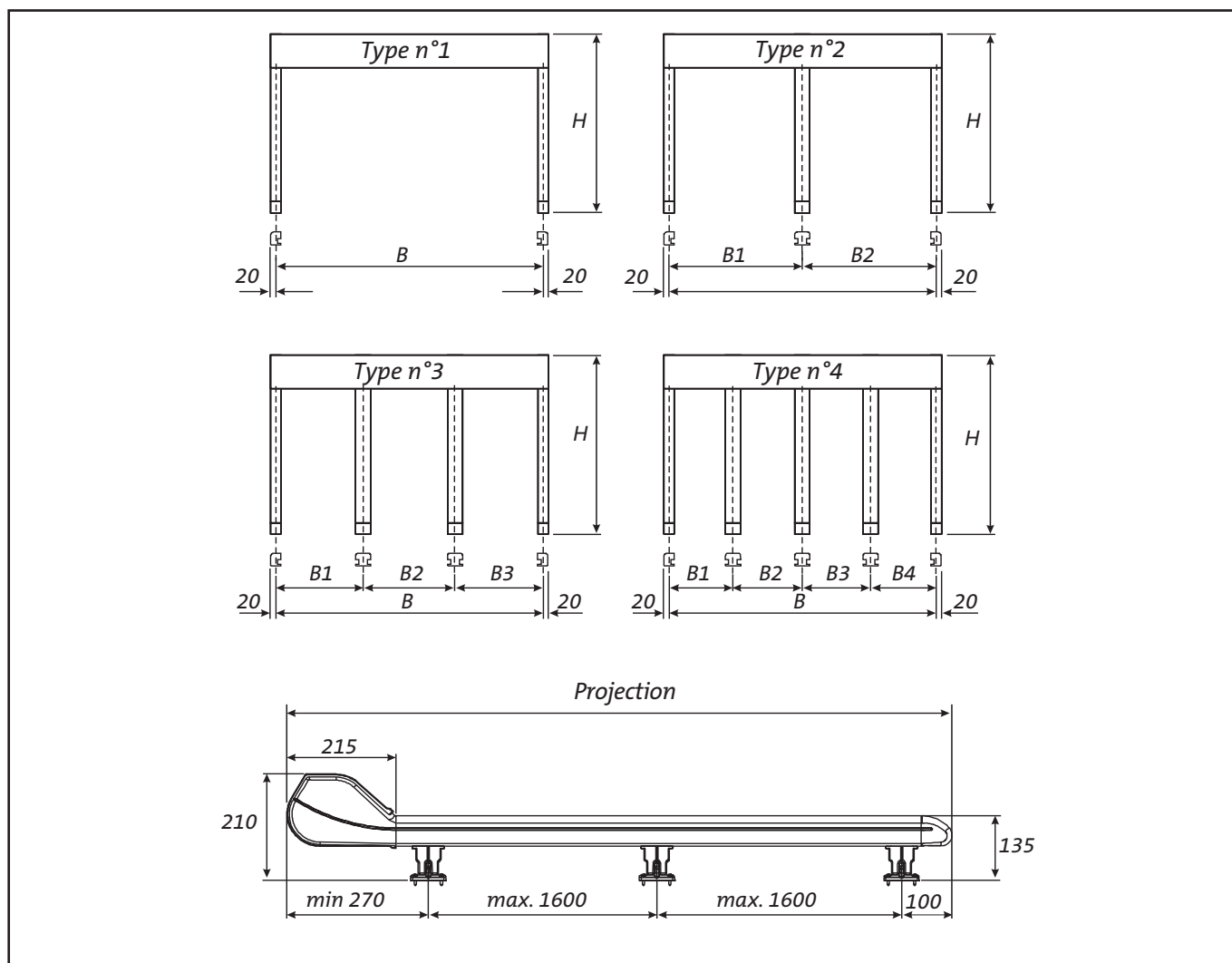


Fig. 17 : Measuring and assembly

7. Fabric cover

Choice between two qualities :

7.1. Acrylic

- Composition : Spun dyed Acrylic fibre coloured in the mass
- Colour : Patterns and colours from the standard collection
- Weight : +/- 290-300 gr./m²
- Thickness : +/- 0,5 mm
- Confection : Patterned in vertical rows of 1200 mm, side hems of 10mm width, double step stitch with polyester thread
- The fabrics are treated for rot and mould, and have waterproof and dirt-repelling qualities

7.2. Soltis

- Composition : Polyester threads, enclosed at both sides with PVC
- Colour : A range of solid colours from the standard collection
- Weight : +/- 330-350 gr./m²
- Thickness : +/- 0,4-0,45 mm
- Confection : Patterned in vertical rows of 885mm, side hems of 40mm width, welded
- The fabrics have excellent ventilation qualities, provide an outward view and are very easily cleaned

8. Measuring and assembling

8.1. Guidance for correctly measuring awnings

- The total width = centre of side guide to centre of side guide. The outside of the box is always 40mm (2x20mm) larger than the middle of the guide rail or the middle of the attachment points
- The projection : measured from the back of the roller box at the top against the wall to the front of the guide, included the cover
- Attention : the extension pole always stops before the covering cap, this means at minimum 63mm of the end of the guide rail
- Note : the width of the roller box is always 40 mm more than the over-all width of the blind. (see figure 14 page 9)

8.2. The assembly

- Check the attachment points (item 3.4)

Attention : The maximum distance between two attachment points of a guide is 1600 mm

The maximum overhang beyond the glazing is 500 mm

9. Colours

- Colours of the frame : as standard white (RAL9016) or Harol brown (similar to RAL8019)
- Choice between several RAL colours (see RAL-colour range) at a surcharge to standard price
- The carriages for a blind in RAL-colours are always black

10. Fixings

All fixings are of stainless steel and always included

11. Packing

The sunblinds are totally wrapped in solid carton

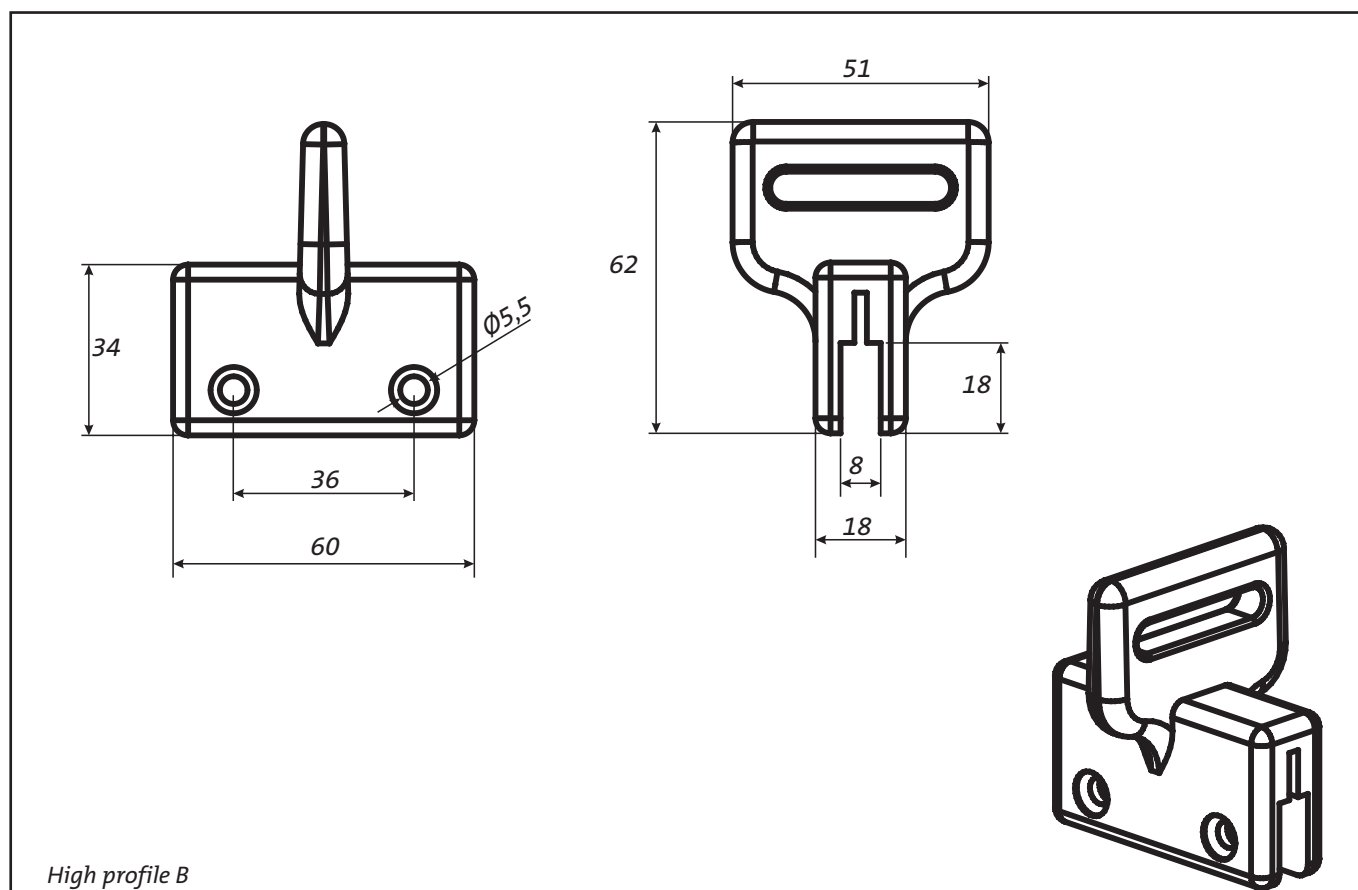
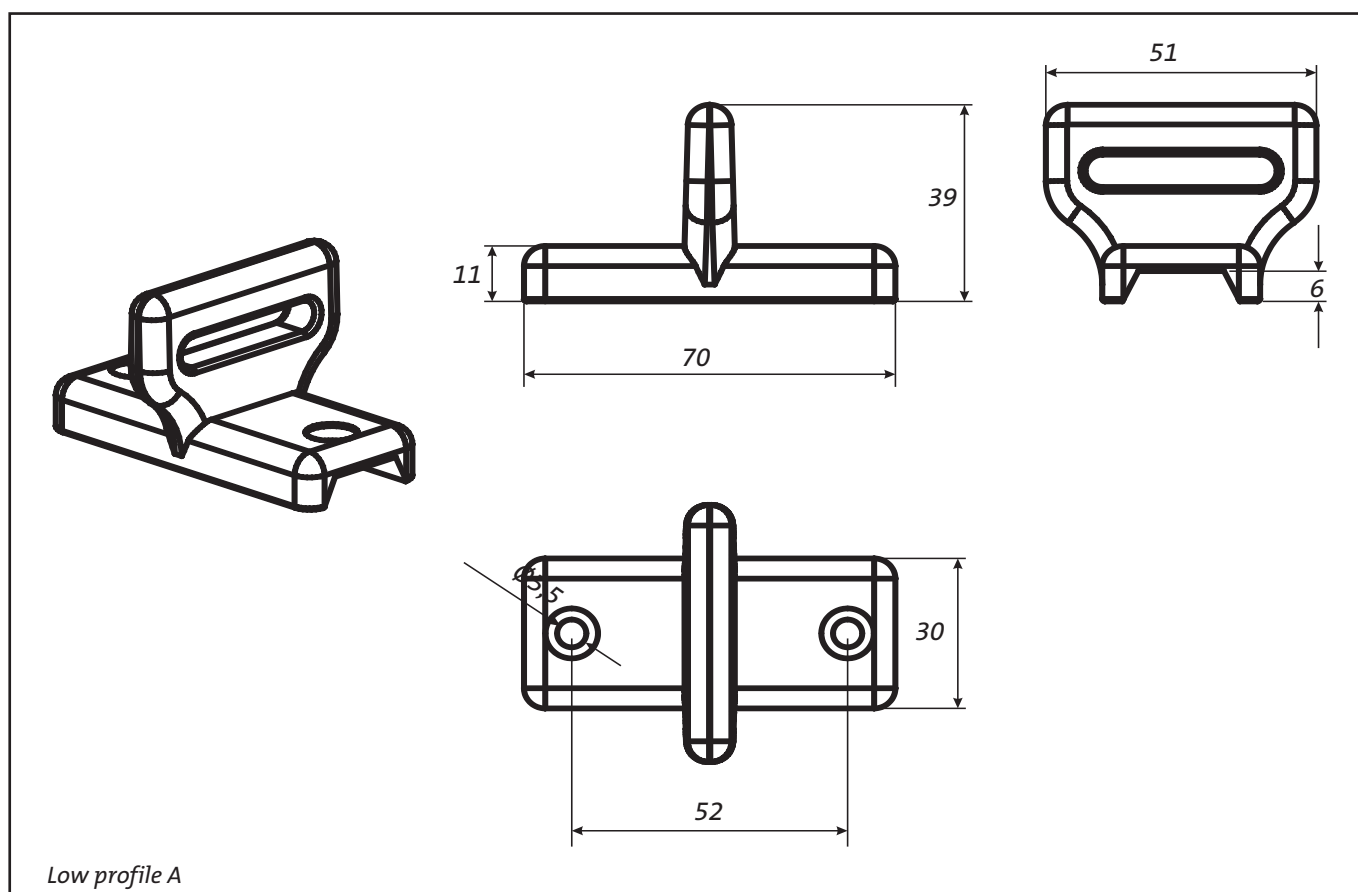
12. Use and maintenance

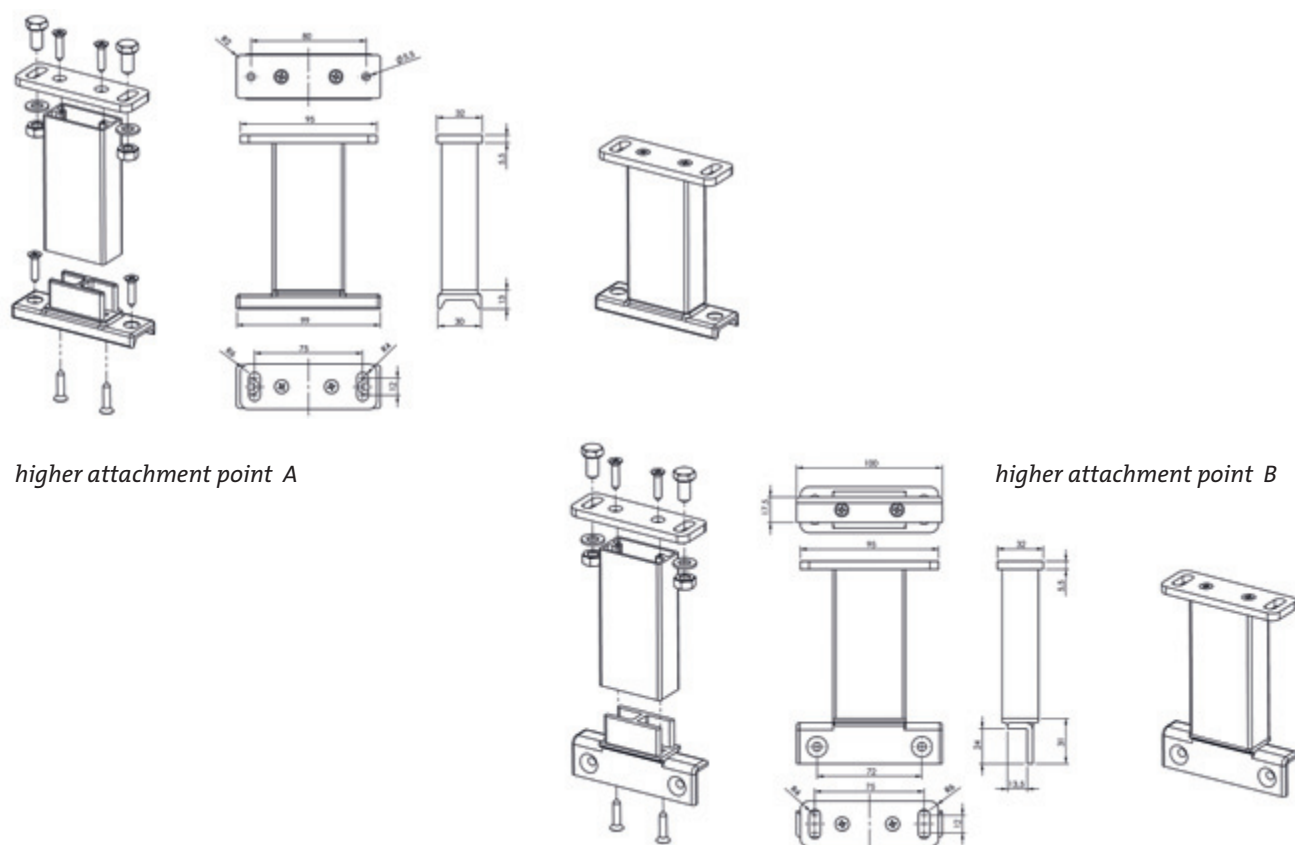
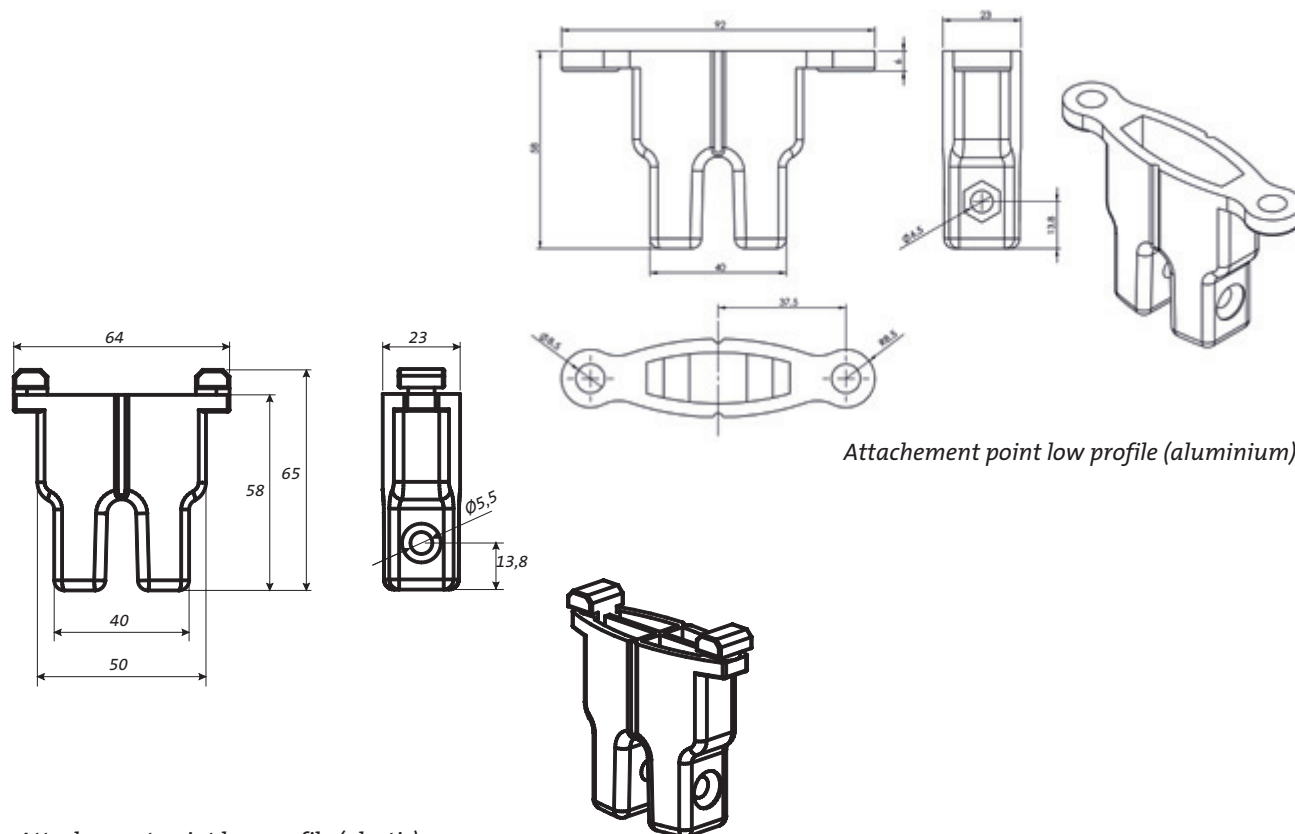
Regular use and maintenance greatly increase the life of the sun awning

- Do not use the awning as a rain or wind awning
- Regular maintenance of the awning prevents unnecessary wear or problems with the function
- Cleaning of the frame : use warm water with a light detergent instead of abrasive substances (to prevent damage to the coatings and protective layers)
- Cleaning of the fabric : dry with a stiff brush
- Stubborn stains : a warm water and light detergent solution, rinse with copious amounts of clean water
- Let the awning dry fully before rolling it up (even after an unforeseen rain shower)

13. Security

For a secure installation it is recommended to mount the awning in accordance with the fitting instructions





Order form Veranda sunblind VZ510

1. Type nr + dimensions:

see fig. 14 page 9

2. Operation:

L	Left	Type 1 + 2
R	Right	Type 1 + 2
LS	Left + 2 right parts together	Type 3
SR	2 left parts together + right	Type 3
LR	Left + right	Type 3 + 4 (2)

Operation is always seen from **the outside**

3. Dimensions:

see page 9

4. Extra intermediate rolls:

see fig. 5 page 6

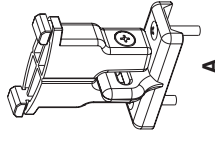
Optional, an intermediate roll (Ø50mm – thickness 2mm) can be used to support the fabric in case of larger extensions.

Remark: from 5001mm extension of HS1, one intermediate roll is included (and charges).
(In that case, this roll shouldn't be indicated in the table on the order form).

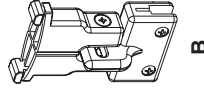
5. Fixing the profile:

see page 7

Attachm. point low profile A (PVC black) standard
Attachm. point high profile B (PVC black) standard
Attachm. point low profile A (PVC white)
Attachm. point high profile B (PVC white)

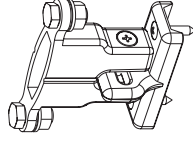


A

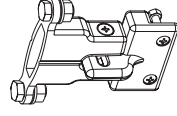


B

Attachm. point low profile A (aluminium)
Attachm. point high profile B (aluminium)

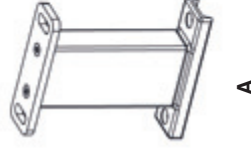


A

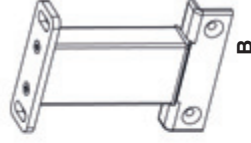


B

Higher attachment point A (aluminium)
Higher attachment point B (aluminium)



A



B

6. Fixation on the wall:

see page 7

Assembly L: for using against the wall.
Available per piece of 100mm, or in the following lengths:
Type L1 = 50 x 30mm

Type L2 = 100 x 50mm
Type L3 = 130 x 50mm

7. Frame colour:

9016 White (Ral 9016)
4 Brown (Harol-brown)
... RAL-colour (indicate nr)

Remark : Surcharge for HARAL- or RAL colour

9. Fabric:

S Standard quality - Acrylic
E Extra impregnated - Acrylic (limited choice)
S86 Soltis 86
S92 Soltis 92

Indicate the number of the fabric colours according to the collection book.

10. Supplements:

A 269 Coupling set for 2 lateral guides
A 279 120 Higher attachment points L= 120mm
A 279 200 Higher attachment points L= 200mm
A 279 300 Higher attachment points L= 300mm
A 279 400 Higher attachment points L= 400mm
A 1075 Attachment points in aluminium
A 2396 PVC attachment points in white
A 288 Extend motor cable up to 5m
A 289 Extend motor cable up to 10m
A 1076 Motor Orea RTS
A 2562 extra reinforcement support box (for windy environments)
A 1281 Sunea IO motor
A 1285 Without Situo IO Pure sender

Order form Veranda sunblind VZ510

DATE: REFERENCE HAROL:

CLIENT / INVOICE				DELIVERY ADDRESS			
Name:				Name:			
Address:				Address:			
Client NR:				Tel:			
Tel:				Delivery time:			
VAT:				Fax:			
Fax:							

POSITION	NUMBER	TYPE NR	OPERATION	DIMENSIONS (MM)					EXTRA INTERM. ROLLS NUMBER	PROFILE FIXATION		FIXATION ON THE WALL			FRAME COLOUR	FABRIC		SUPPLEMENTS
				W	W1	W2	W3	W4	H	A	B	TYPE	LENGTH	NUMBER		QUAL.	COLOUR	
1																		
2																		
3																		
4																		
5																		
6																		
		1	2	3					4	5		6			7	8	9	

- Spaces not filled in = standard execution. - The operating side is always seen from the outside. - Please indicate all sizes in mm. - We consider the mentioned sizes as being nett, i.e. no extra play is deducted. - Each order is executed according to our terms and conditions of sale.	I have taken note of the technical product descriptions and take full responsibility for the indications and sizes mentioned.
PRICE:	REMARKS:
The client, 	

