

VERANDA SUNBLIND

VZ800

Article number 063572

ALWAYS READ THE INSTALLATION INSTRUCTIONS BEFORE ASSEMBLING!!!

TECHNICAL DATA VERANDA SUNBLIND VZ800-ZIP

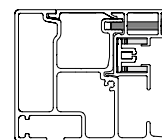
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Harol reserves the right to make alterations to the product without prior notice.

1. GENERAL

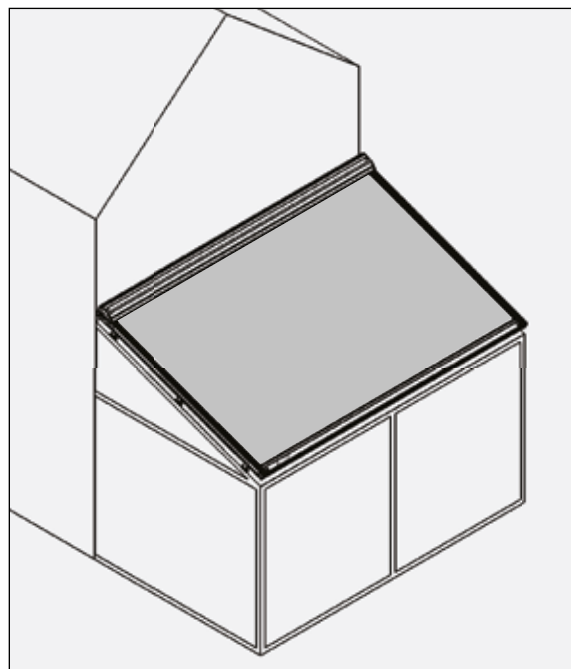
- The VZ800 veranda sunblind is designed to control to a considerable extent the penetration of sunlight in a room, which can cause uncomfortably high levels of light and heat. The fabric of the blind is protected and rolled up in a box which is closed by the extension pole when the screen is completely retracted. The box is fixed to the guide rails.
- The fabric is kept at a safe distance from the veranda roof by the position of the guide rails and a cable spring system that keeps the fabric under constant tension.
- The system is so designed as to enable any minor seating tolerances in the roof sections to be easily taken up. The entire system is made of non-corroding materials.
- There are several fitting options - as standard, the VZ800 is fitted above the veranda, since the most efficient sunblind is fitted on the outside of the glazing. It can then be fixed on the veranda profiles using supports. There are several supports available for this.
- The VZ800 is provided with a zipper system that ensures the fabric remains properly tensioned at every height position of the extension pole, which prevents the fabric from pulling out of the guide rails. The sections of fabric are always finished with a zipper on the left and right, of which the thicker side slides into a plastic zipper profile. This is placed in a separable aluminium guide profile.
- The VZ800 consists of:
 - A box with an easily removable fabric roll with motor control.
 - A polyester fabric with zipper that is rolled up in the box.
 - Separable guide rails to reach the zipper guide smoothly.
 - An extension pole with spring to keep the fabric tensioned.
 -



2. FITTING TYPE

The VZ800 can be fitted in one way, which is on a load-bearing structure from top to bottom.

- Outdoor assembly.
- Fabric hangs to the outside.
- Sun protection is viewed along the outside.
- Zip is on the window side.
- Alu side of the fabric faces the sun, for Soltis 86 & 92.
- Grey film is on the window side (for blackout fabric)



3. PROFILES

Figure 1:

Guide rails

3.1. The separable guide rails

- Material: extruded aluminium with powder coating
- Wall thickness: 1.5 mm
- Colour: choice from RAL colour range
- Two types:
 - Lateral guides: installed on outer sides, with a rail slot on one side only.
 - Coupling guides: installed in the middle, with a rail slot on either side.
- The profiles have a hollow chamber into which the support pins of the side caps fit.
- Aluminium end caps coated to match the frame.

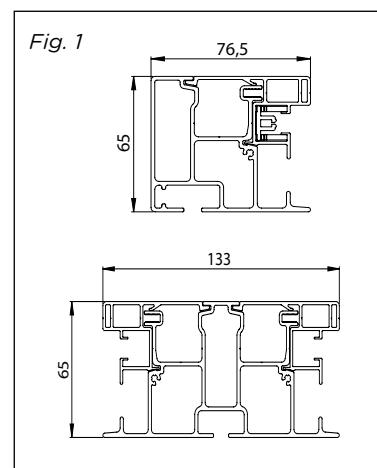


Figure 2:

Fabric roll

3.2. The fabric roll

- Material: circular tube made of galvanised steel, with a groove for attaching the fabric.
- Function: rolling the fabric up and down

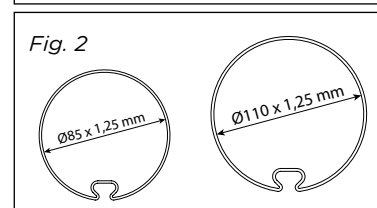


Figure 3:

Zipper guide profile with springs

3.3. Zipper guide profile

- Material: extruded PVC clip profile
- Function: Absorption of the zipper profile on the fabric to keep the fabric tensioned with the aid of stainless steel springs.

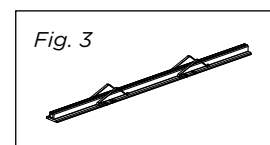


Figure 4:

Box

3.4. The box

- Material: extruded aluminium with powder coating
- Wall thickness: 2,5 mm
- Colour: choice from RAL colour range
- Consists of two sections:
 - a removable chamfered upper section or cover;
 - a fixed lower section.
- A fabric guide profile is attached to the fixed section, which guides the fabric out of the box.
- A brush is secreted in the cover.

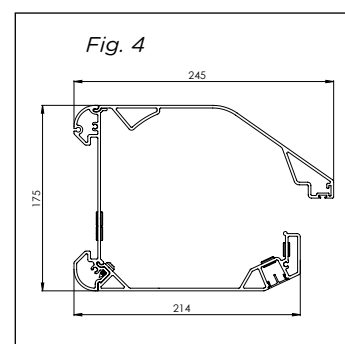


Figure 5:

Extension pole

3.5. The extension pole

- Material: extruded aluminium with powder coating
- Wall thickness: Basic section 4 mm
- Locking profile 2 mm
- Colour: choice from RAL colour range
- Function:
 - The basic section is provided with a groove to which the fabric can be attached.
 - A locking profile: is clipped on to the basic section.
 - Runs along the grooves in the lateral guides via specially designed sliding blocks.

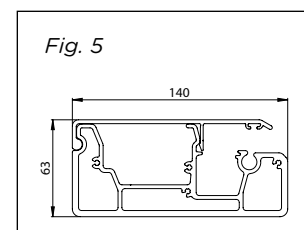
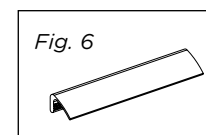


Figure 6:

Clip-on/Clip-off profile

3.6. Clip-on/Clip-off

- Material: extruded PVC clip profile
- 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 it sideways.
- Diameter of the fabric retainer to be combined: Ø3 mm.
- Advantage: quick and easy fabric changing.



4. THE OTHER COMPONENTS

Figure 7a:

Side consoles

4.1. The consoles

- Material: high-pressure-cast aluminium with powder coating.
- Colour: colour of frame
- Dimensions: 245 x 175 mm
- There are 2 types of consoles: side consoles and coupling consoles

Fig. 7a Side console

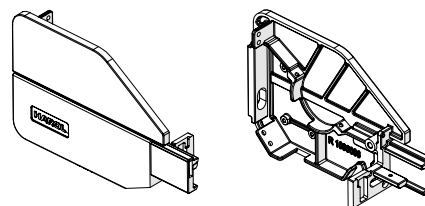


Figure 7b:

Coupling consoles

4.2. The carriage

- Material: Plastic injection moulding
- Colour: black
- Function:
 - Connection of extension pole and guide rails, fitted with a sliding surface that meshes into the running surface of the guide rail.
 - These are screwed into the left and right of the end of the extension pole.

Fig. 7b Coupling console

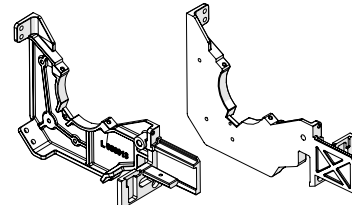


Figure 8a:

Carriage

4.3. Guide rail covers

- Material: high-pressure-cast aluminium with powder coating.
- Colour: colour of frame
- Function:
 - To cover the guide rail
 - Turn-over wheel cord

Fig. 8a Carriage

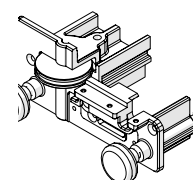


Figure 9:

Cover for guide rail

4.4. The tensioning system

- Material: the castors, axles, etc. are made of non-corroding materials.
- Function: fabric and extension pole can be constantly kept under tension via a spring, castors and a cord of Ø2,7 mm.
- This keeps the fabric at a certain distance from the glass roof when unrolled, so that there is a ventilation space between the sunblind and the glass roof (elimination of accumulated heat).

Fig. 9

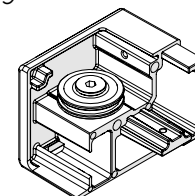


Figure 10:

Connectors

4.5. Connectors

- Material: Corrosion-free material
 - Function: Pairing 2 fabric parts
 - Adjustable into 8 steps
- Please note: it is possible that the extension poles will not fully extend and retract simultaneously, as there may be some play in the coupling. For linked awnings, operating the motor located at the widest section is recommended.

Fig. 10 Connectors

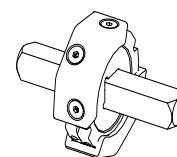


Figure 11:

Standard fixing support

4.6. Mounting of the guide rails

S: Standard aluminium bracket

- Material: aluminium version, with powder coating adapted to the colour of the frame.
- Function:

The attachment system is in two parts:

 - The upper part: attached to the bottom of the lateral and central guides.
 - The lower part, comes in two versions:

Fig. 11: Low support A - Alu

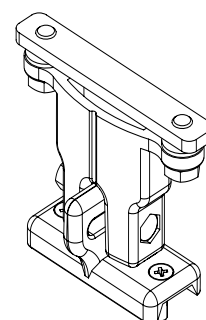
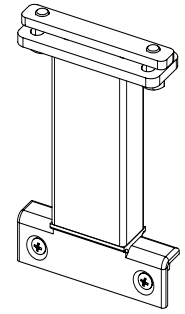


Figure 12:

Standard fixing support

- **A: Low bracket A**
 - for veranda roof profiles with glass above and wooden pergola and veranda systems.
 - is screwed into the wood or into the groove at the top of the profiles into which the rubber seal is fixed. (fitting A)
- **B: High bracket B**
 - for veranda profiles with the glass beneath and screwed into the veranda roof profile with two bolts. (**fitting B**)
 - The upper and lower parts can be adjusted laterally to one another. This allows small positioning deviations between guide profile and veranda profile to be absorbed.

Fig. 12: High support B - Alu



Z: without brackets → option A3705.

- Attention: the fabric will always droop a little but must never touch the glass.

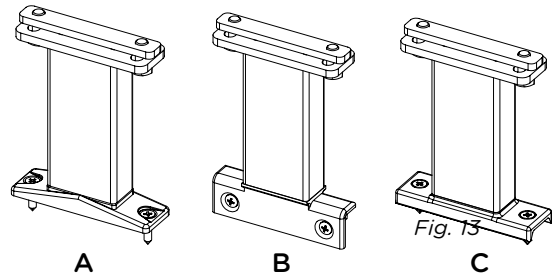
A279: Extended supports

- A: Low support A**
- B: High support B**
- C: Low support C**

Figure 13:

Extended supports

- The clearance between the guide rail and the glass profiles can be increased by means of extended supports.
- When doing this, take into account the fact that the veranda profiles, when using extended supports, will be subject to heavier loads.
- For this reason, they can only be used when there is no danger of them twisting. If required, each guide rail must be supported.
- The extended supports are available in lengths of 120 mm, 200 mm, 300 mm or 400 mm.
- The maximum permitted distance between two attachment points of a guide rail is maximum 1600 mm.



4.7. Fixing on the wall

Additional fitting options:

- If fitting methods A or B are not possible, an option is to fix against a wall. There are 3 standardised L-profiles for this that can be provided in any desired length. (Always to be used with flat supports A)
- Available in the following sizes:
 - Type L1 = 50 x 30 x 3 mm
 - Type L2 = 100 x 50 x 3 mm
 - Type L3 = 130 x 50 x 5 mm

Fig. 15

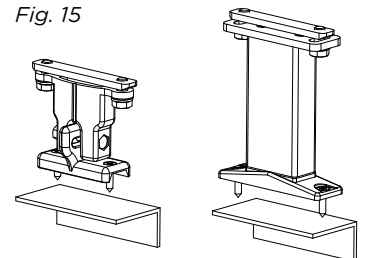


Figure 15:

Fixing on the wall

Note:

No supports as an option is possible, but is not recommended. This set-up would restrict the deviations in the placing of the guides during installation. Moreover, the guide profiles are not self-supporting.

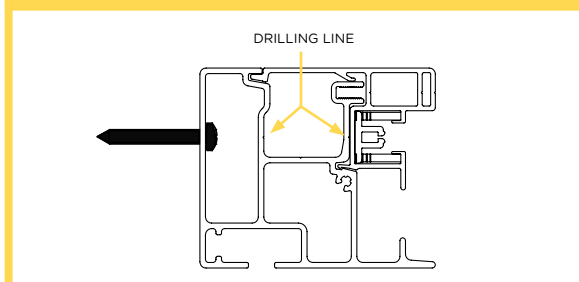


Figure 16:
Coupling plate

4.8. Coupling of 2 lateral guides

For coupling two veranda sunblinds, the coupling components can be used.

There are two coupling components in aluminium:

- The coupling plate:
 - The plate is placed underneath the 2 lateral guides. In the plate, there are 4 holes provided for the screws. The screws are driven into the groove of the guide rails (2 per guide rail) to secure the plate.
 - In the middle of the plate, there are 3 holes provided for fixing an extended support.

Fig. 16 :

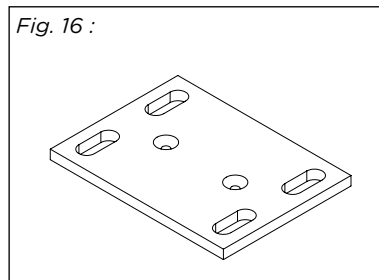


Figure 17:
Coupling angle

- The coupling angle:
 - The angle is placed underneath the 2 lateral guides. The horizontal surface, which is placed underneath the guide rails, has 2 holes for the screws. The screws are driven into the grooves of the guide rails (1 per guide rail) to secure the angle.
 - The vertical part has 1 hole for fixing the A or B support.

Fig. 17 :

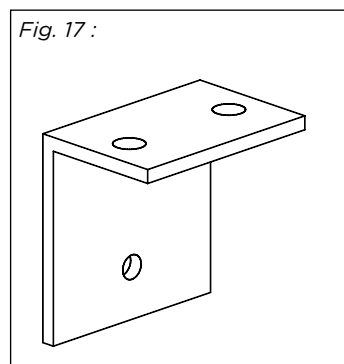


Figure 18:
Positioning support
under left or right guide
rail

- Coupling duo set (Option A269):
 - Consists of:
 - The coupling plate and coupling angle with the requisite screws, nuts and washers.
 - Function:
 - When using an extended support in the middle, the profile of the elevated support is directly fixed to the coupling plate. In that case, the upper part of the extended support will not be used. (Fig. 20)
 - If the standard support is placed in the middle, the upper part of the support should be replaced by the coupling angle. (Fig. 19)
 - If the support is placed left or right on the guide rail, the coupling will be done independently of the support, by mounting the coupling plate behind the support. (Fig. 18)

Fig. 18 :

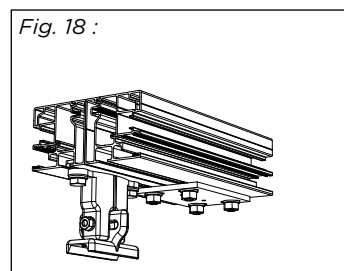


Figure 19:
Positioning standard
support in the middle

Fig. 19 :

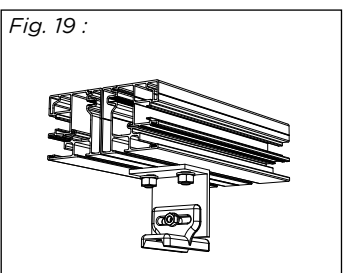
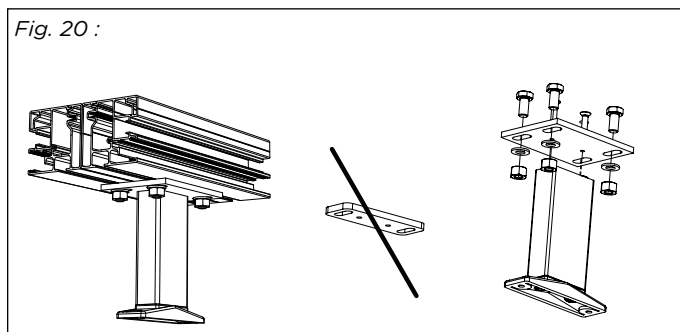


Figure 20:
Positioning extended
support in the middle

DROP	NUMBER OF SUPPORTS PER GUIDE RAIL
1600	2
3200	3
3500	4
6000	5

Fig. 20 :



5. CONTROL

5.1. Motor-controlled operation

Standard:

- Drive via tubular motors: 230 Volt (50 Hz)
- Control side fitted as required either far left and/or far right.
- The standard motor used is the Sunea IO motor with white motor cable of length 5 m. The motor does not have push buttons and is operated using an IO transmitter.

Optional:

- Other types of motors: Orea WT
- Other cable lengths:
 - 10 m instead of 5 m (A289)
 - 5 m instead of 3 m (A288)
- Other cable: black cable (RRF) instead of white cable (VVF)
- Without IO wall transmitter

Option	Motortype	Surcharge	Cable lengths						Operated by
			White			Black (option A1631)			
			3M	5M	10M	3M	5M	10M	
Standard	Sunea IO	-	-	S	O	-	O	-	IO transmitter
A2619	Orea WT	Minus price	S	O	O	O	O	O	switch

S: Standard
O: Option

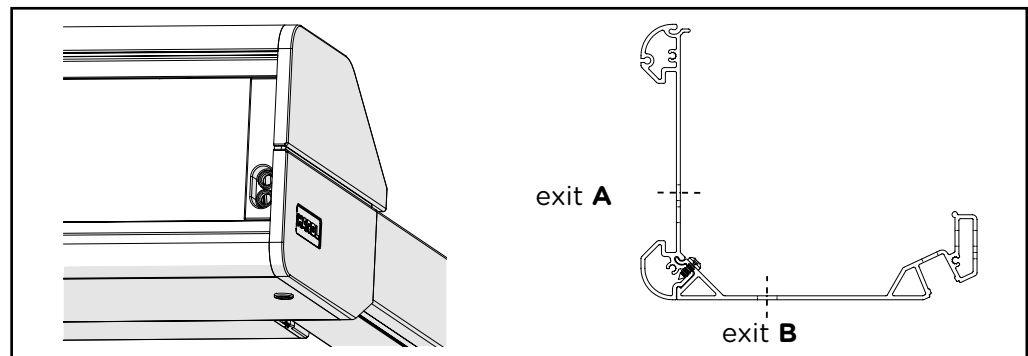


Figure 21: Exits (cabling)

5.2. Automation

– Accessories (For this, see the Harol Domotics folder):

- Relay boxes
- Wind-and-solar control
- Time switches
- Remote control
-

6. TECHNICAL OPTIONS

- Minimum width per element: **1,5 m**
- Maximum width per element: **6 m***
- Maximum drop: **6 m**
- Minimum drop: **0,5 m**
- Maximum surface area per fabric: **25 m²**

Type	Maximum range in metres								Maximum surface area	Number of elements	Number of motors
	1,5	3	4,5	6	8	12	14	16			
Type 1		1 part							25 m ²	1	1
Type 2			2 parts						48 m ²	2	1*
Type 2			2 parts						50 m ²	2	2
Type 3				3 parts					73 m ²	3	2
Type 4					4 parts				96 m ²	4	2

(*) From a width of 4001 mm per piece of fabric: only Soltis 86, Soltis 92 and Infinity fabric possible.
Please note: due to its weight, the extension pole for longer widths may sag.

Table 1: Technical possibilities

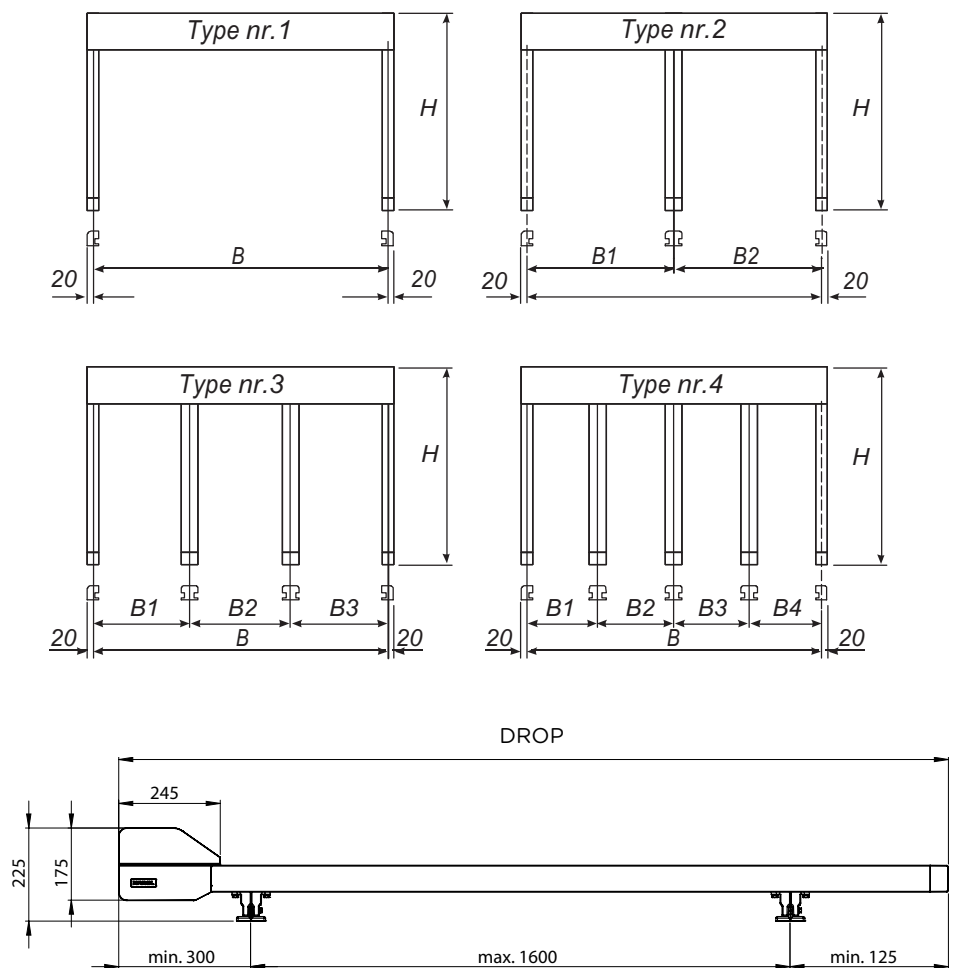


Figure 22: Measuring and assembling

7. MEASURING AND ASSEMBLING

7.1. Guidelines for correct measuring

- The total width = centre of veranda profile to centre of veranda profile. The outside of the box is always 40 mm (2 x 20 mm) wider than the centre of the guide rails or the centre of the mounting brackets.
- The drop: measured from the back of the box at the top against the wall to the front of the guide rail, including the cover.
- The final position of the extension pole can be set flush with the end of the cover of the guide rail.

Please note: the width of the box is always 40 mm more than the order width. (see fig. 22 page 10)

7.2. The assembly

- Please note: always ensure a right-angled fitting. If the assembly is not right-angled, this will greatly increase the risk of wrinkles in the fabric.
- See overview of the fitting supports (point 4.6, p. 6 and 7).
- Attention: The maximum distance between two attachment points of a guide rail is 1600 mm.
- The maximum overhang is 500 mm.



Make sure the box and extension pole can always be opened, to ensure that the mechanical parts inside are accessible at all times. If this rule is not followed, Harol cannot be held responsible for the cost of demolition work!

TECHNICAL DATA VERANDA SUNBLIND VZ800-ZIP

8. FABRICS

Choice of different types of fabric:

Table 2:

Technical data of the fabrics

⁽²⁾ Schmerber

	ACRYL					
	DICKSON					
	Orchestra	MAX	Opera	Symphony	Spark FR	Infinity
weight ca. (g/m ²)	300	320	330	360	335	290
thickness ca. (mm)	0,50	0,70	0,65	0,50	-	0,57
imflammability class	-	-	-	-	-	-
Euro-imflammability class	-	-	-	-	-	-
water resistance (mm)	300	1200	200	450	350	300
roll width (mm)	1200	1200	1200	1200	1200	3200*
direction	vert.	vert.	vert.	vert.	vert.	horiz.
handling	stitched					
opening factor	0%	0%	0%	0%	0%	0%
Gtot	0,05-0,18	0,04-0,17	-	-	-	0,05-0,18
Art.-nr.	050101	050102	050122	050122	066469	064087

*Other roll widths for Infinity : 1650mm / 2000mm / 2500mm

Table 2b:

Technical data of the fabrics

⁽²⁾ Schmerber

	ACRYL				POLYESTER			
	SATTTLER				FERRARI			SWELA
	Elements (Cross Fiber)	Lumera	Lumera 3D	Valora	Soltis 86	Soltis 92	Soltis B92	Elegance
weight ca. (g/m ²)	290	290	295	275	380	420	650	310
thickness ca. (mm)	0,60	0,57	0,55	0,47	0,43	0,45	0,60	0,45
imflammability class	-	-	-	-	B-s2,d0	B-s2,d0	B-s2,d0	-
Euro-imflammability class	-	-	-	-	M1	M1	M2	-
water resistance (mm)	370	460	>500	>1000	-	-	>10000	350
roll width (mm)	1200	1200	1200	2600	1770/2670	1770/2670	1700	1200
direction	vert.	vert.	vert.	horiz.	horiz.	horiz.	horiz.	-
handling	stitched				welded			stitched
opening factor	0%	0%	0%	0%	14%	3 à 4 %	0%	-
Gtot	0,03-0,20	0,03-0,21	-	0,02-0,19	0,12-0,22	0,05-0,15	0,01-0,05	-
Art.-nr.	050098 + 050104 + 050244	050097 + 050099	050211	050243	050110	050111	050114	050451

* Used roll widths of 885 mm

Remark: Guidelines from the manufacturers of awning fabrics on request. ⁽²⁾ Schmerber ISO 811

1. Acrylic fabrics:

- composition: acrylic fibre coloured in the mass.
- colour: patterns and colours chosen from the standard collections.
- ready-made:
 - vertical rows of 1200 mm.
 - side seams of 50 mm.
 - double step stitch with polyester thread.

max → Totally waterproof

Spark FR → fire-resistant awning fabric.

2. Soltis 86 en Soltis 92 (Ferrari)

- Transparent and refractive fabric.
- Woven from polyester thread, stretched under great tension and secured with a plastisol layer.
- Varnished on two sides -> excellent protection against UV rays.
- High tear strength without additional reinforcement.
- Durable and dirt repellent.
- Exceptional dimensional stability when used between -30 °C and +70 °C.
- Sunblinds with a drop of -> 2670 mm are fitted with a horizontal weld seam!
- With two-tone fabrics, the Alu side is always on the outside or on the garden side
- Minimum slope angle 8°, if there is a chance of light rain on the fabric.

3. Verduisteringsdoek B92 (Ferrari)

- Opaque and light-blocking fabric.
- Woven from polyester thread, stretched under great tension and secured with a plastisol layer.
- Provided with a light-blocking PVC coating on one side (window side).
- Wind can cause the bottom lath and fabric to lift up, and as a result it is not possible to guarantee that light is blocked 100%.
- Sunblinds with a drop of > 1700 mm are fitted with a horizontal weld seam!
- Minimum slope angle 14°, if there is a chance of light rain on the fabric.

4. Elegance (Swela)

- Woven of polyester threads
- waterproof
- Sunblind with projection -> 3000 mm fitted with a horizontal weld seam.

Note: adherence to the minimum inclination is essential with the «Infinity» and «Swela Sunvas Perla» fabrics otherwise water will collect on the fabric which will sag and be permanently deformed. This will invalidate the warranty. If left open while it is raining, water will drain uncontrollably via the extension pole carriages. There is no water collection mechanism (gutter) underneath the guide rails.



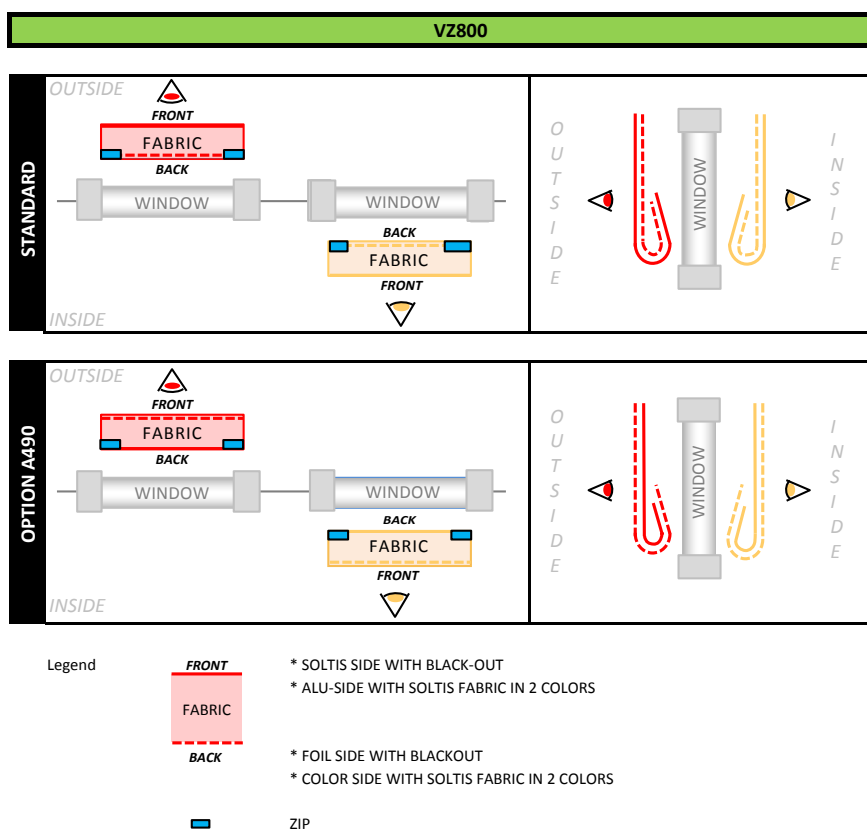
5. Finish

Zippers are placed on the sides of each fabric, and with correctly fitted guide rails, the zippers ensure that the fabric is taut in any height position of the extension pole, thanks to the tension between the zipper and the guide rails.

Due to the tension on the fabric, a cracking sound may be emitted during extending and retracting the awning. Causes:

1. air being squeezed out from between the layers of fabric
2. the cord jumping on the pulley

All fabrics always have the zips on the reverse side of the fabric, that is, the window side. In addition to the options for applying single or multi-colour prints to the fabric (options A2200 and A2201), there is the option for the Soltis 86/92 and the opaque B92 screen to change the fabric colour or fabric side on the sunblind (option A490), see drawing.



Option A490 is not available for “Infinity”.

9. BLACKOUT

The VZ800 can be used to darken a room, i.e. shield it from the outdoor light in order to give presentations or projections, but it is not such that photos can be developed, in other words, it is not 100% blackout.

To achieve a proper blackout, the following points need to be taken into account:

- It is only possible by using a **blackout fabric**.
- The spaces between the guide rails, the box, the wall and the window frame must be carefully sealed (with, for example, silicones, strips, or the like).
- Wind action can cause the bottom lath to waft up, and as a result a gap may occur.
- Account should be taken of a small gap between the extension pole and the guide rail.
- Option A2426 - placing an extra angled profile (30x20x2) for the extension pole against the wall reduces even more the chance of a chink of light appearing.

10. LED LIGHTING - *Optional*

- The Alu clip profile is removed at the bottom-front side of the box.
- In the remaining opening, a LED strip is adhered, and covered by a small diffuser profile.
- Required power supply 230V AC/23V DC.
- Each box section is fitted with an LED strip, a diffuser, each with its own external power supply, to be fitted outside the box. IO or with a switch (switch is not included).
- The LED strip is always installed across the entire width of the sun screen. At the ends, there may be a little less light, depending on the cut length of the LED strip.
- The LED strip operates on 24V DC, 9.6 W/m.
- The lighting is suitable for ambiance lighting only. The LED colour is white.

- Operation:

1. IO Dimmable

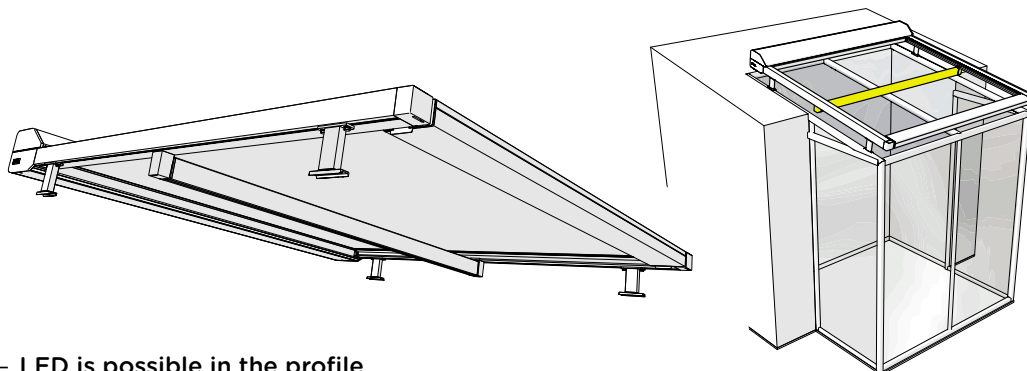
- The dimmable lighting cannot be operated with Smoove IO controls.

2. Without receiver

- A power cable which can be connected to a switch is included (switch is not included).

11. FABRIC SUPPORT -optional

If required, a fabric support can be fitted to reduce sagging. This fabric support is always in a fixed position, halfway down the side channels.

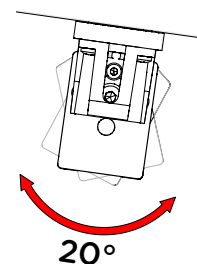


- LED is possible in the profile

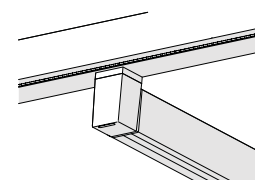
- The Alu clip profile is removed at the bottom-front side of the box.
- In the remaining opening, a LED strip is adhered, and covered by a small diffuser profile.
- Required power supply 230V AC/24V DC.
- Each box section is fitted with an LED strip, a diffuser, each with its own external power supply, to be fitted outside the box. IO or with a switch (switch is not included).
- The LED strip is always installed across the entire width of the sun screen. At the ends, there may be a little less light, depending on the cut length of the LED strip.
- The LED strip operates on 24V DC, 9.6 W/m.
- The lighting is suitable for ambiance lighting only. The LED colour is white (3000K - 600 lm/m).
- The profile can be adjusted to an angle of 20°.
- One support can be supplied per fabric.

- Operation:

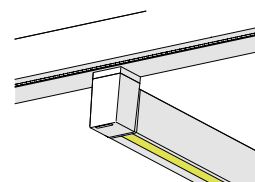
1. Dimmable IO controls:
 - The LED lighting can be operated with all IO controls.
2. Without controls:
 - A power cable which can be connected to a switch is included (switch is not included).



FABRIC SUPPORT IN FUNCTION OF THE SUPPORT TYPE	FABRIC SUPPORT
Attachment point low A (050365)	— (not possible)
Attachment point high B (050364)	— (not possible)
Higher attachment point A (050355)	X
Higher attachment point B (050358)	X
Higher attachment point C (050460)	X



without LED



with LED

12. WEIGHT

The approximate weight of the box based on a fabric roll of Ø85, an SLT-50 motor and a Soltis fabric, can be found in Table 4a below; the weight of two standard lateral guides can be found in Table 4b.

For a VZ800 with a width of 2.5 metres and a projection of 2 metres, the total weight is approx. 65 kg.

Table 3:
Weights of the box, 2 lateral guides and coupling guide

BOX		2 LATERAL GUIDES		COUPLING GUIDE	
LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
1.0 m	± 25 kg	1.0 m	± 5 kg	1.0 m	± 4 kg
1.5 m	± 35 kg	2.0 m	± 10 kg	2.0 m	± 8 kg
2.0 m	± 45 kg	3.0 m	± 15 kg	3.0 m	± 12 kg
2.5 m	± 55 kg	4.0 m	± 20 kg	4.0 m	± 16 kg
		5.0 m	± 25 kg	5.0 m	± 20 kg
		6.0 m	± 30 kg	6.0 m	± 24 kg

13. FRAME COLOUR

According to RAL colour range.

14. FASTENING MATERIALS

All fastening materials are of stainless steel and accessories are always included.

15. PACKAGING

All sunblinds are fully packed in solid cardboard boxes.

16. USE AND MAINTENANCE

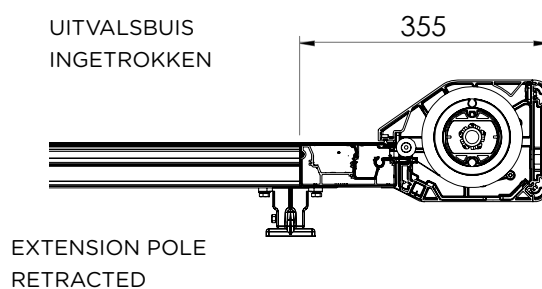
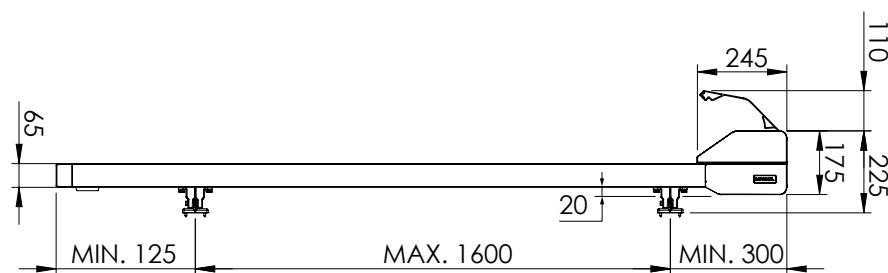
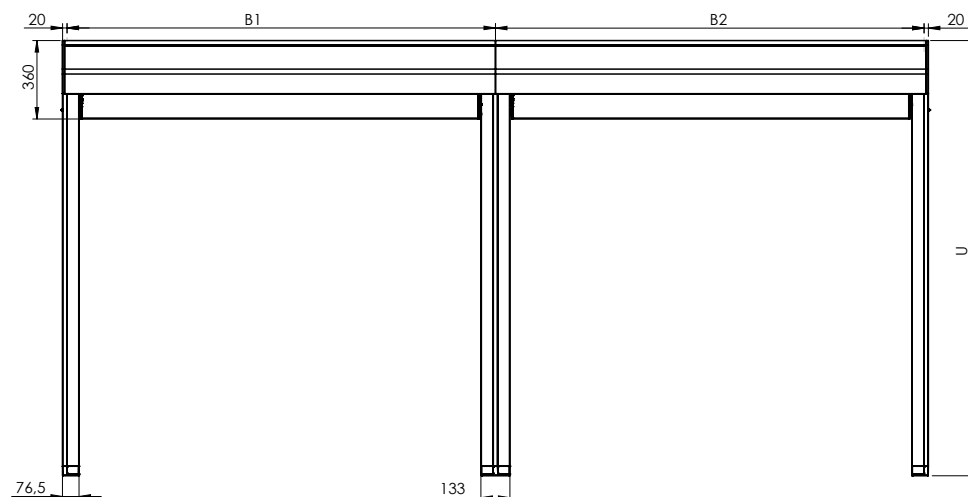
Proper use and maintenance greatly increase the lifetime of the sunblind.

- Do not use the blind as a rain or wind screen.
- Regular maintenance prevents unnecessary wear and operational problems.
- Cleaning the frame: use soft water instead of aggressive substances, which may affect the coatings and protective layers.
- Cleaning the fabric: dry with a slightly stiffer brush.
- With stubborn stains: clean with a warm water and light detergent solution, rinse with copious amounts of clean water.
- Always let the fabric dry fully before rolling it up (even after an unexpected rain shower).
- It is recommended to offer the end customer a maintenance contract for this product.

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17. SAFETY

For the safety of the end user, the sunblind must be installed strictly in accordance with the fitting instructions.

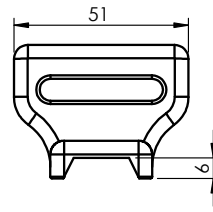
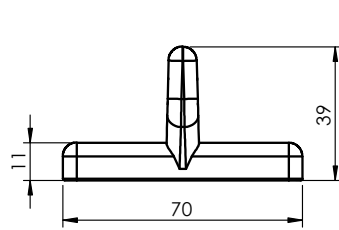


18. ORDER FORM

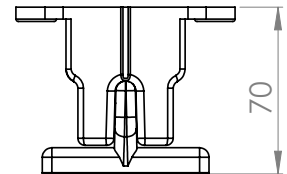
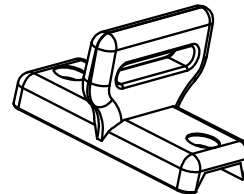
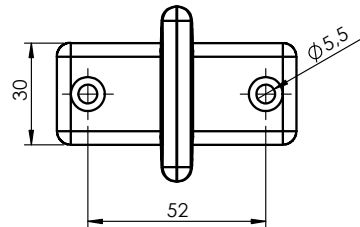
Click on the link below:



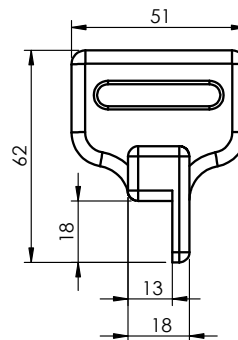
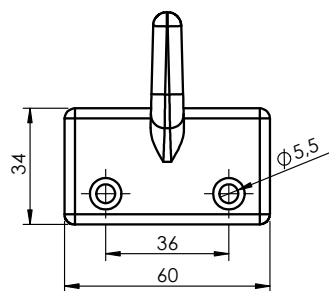
TECHNICAL DATA VERANDA SUNBLIND VZ800-ZIP



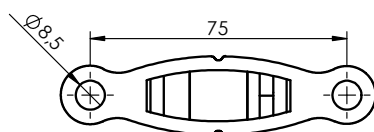
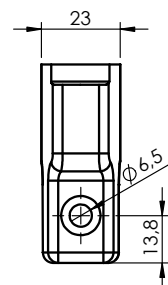
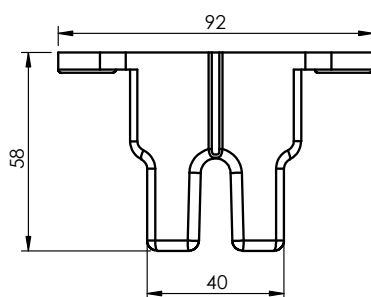
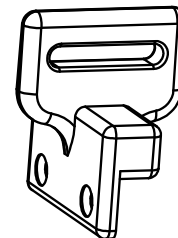
Steun Aluminium
Lage steun A



Low support A - Alu

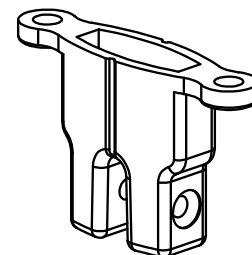


High support B - Alu

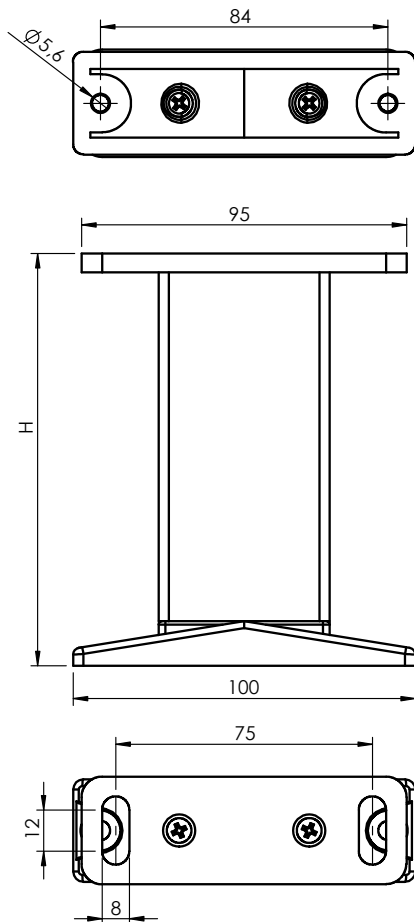


Top side of support - Alu

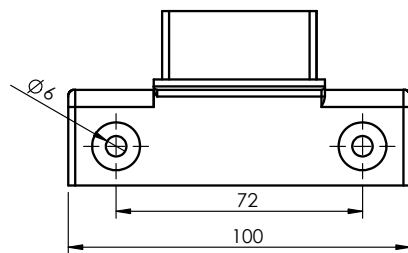
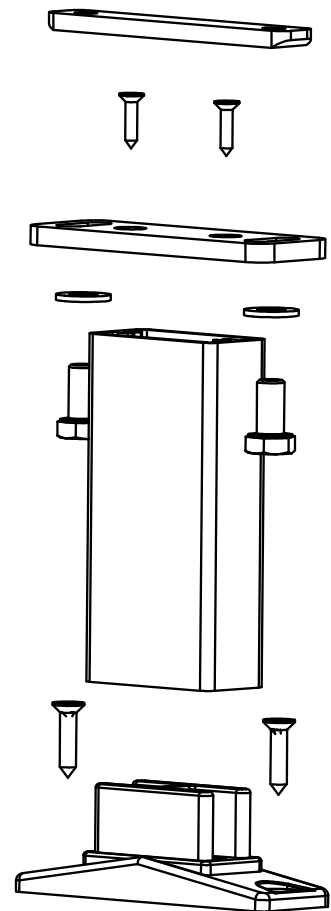
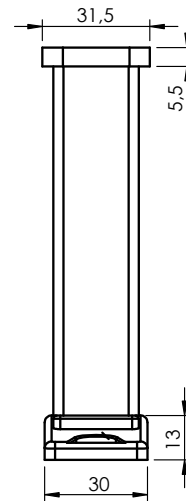
Alu



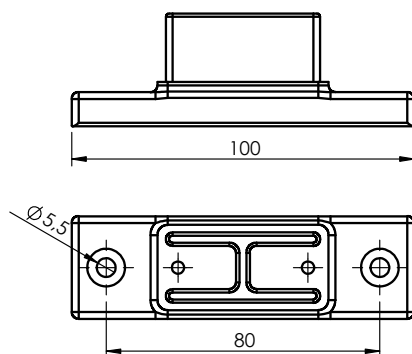
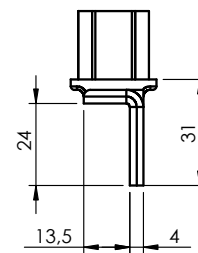
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Extended support A - Alu



Foot of extended support B - Alu



Foot of extended support C - Alu

