

Outdoor living

Terrace awnings

VERSUZ

Article number 063574

SHUTTERS

SUN PROTECTION

HAROL

ALWAYS READ THE INSTALLATION INSTRUCTIONS BEFORE FITTING!!!

TECHNICAL DATA VERSUZ VERANDA SUNBLIND

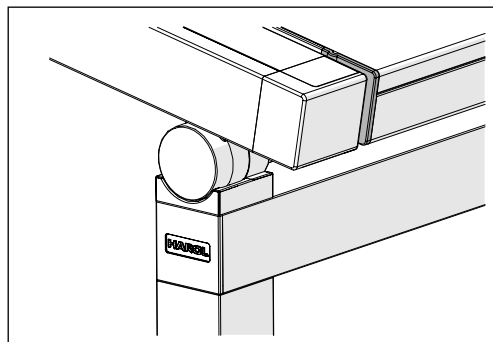
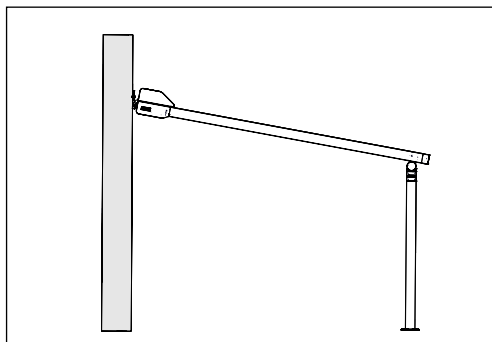
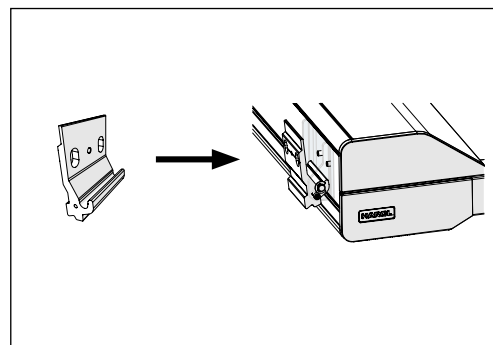
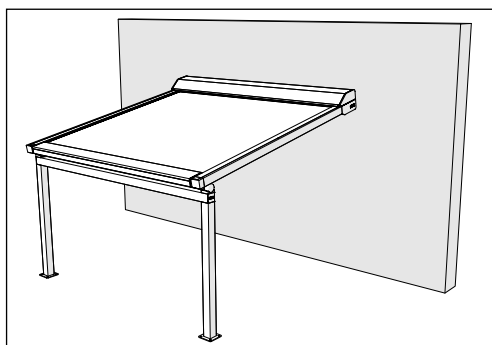
TABLE OF CONTENTS

1. GENERAL	4
2. DIMENSIONS	5
2.1. General dimensions	
2.2. Technical options	
3. PROFILES	7
3.1. The box	
3.2. The fabric roll	
3.3. Clip-on/Clip-off	
3.4a. The separable guide rails	
3.4b. The separate guide rails XL - from drop 4001 mm	
3.5 Zip guide profile	
3.6. The extension pole	
3.7. The posts	
3.8. Cross beam	
4. MISCELLANEOUS PARTS	8
4.1. The side caps	
4.2. Guide rail covers	
4.3. The carriages	
4.4. The tension system	
4.5. Coupler	
4.6. The wall bracket	
4.7. Hinges	
4.8. Connection bracket for posts	
4.9. Foot plate	
5. OPERATION	10
5.1. Motor-controlled operation	
5.2. Automation	
5.3. LED lighting	
6. FABRICS	12
6.0. Summary	
6.1. Acryl	
6.2. Soltis 86 & Soltis 92	
6.3 Sattler	
6.4. Sunvas Perla	
6.5. Infinity	
6.6. Finish	
7. WEIGHT	14
8. MEASUREMENT AND FITTING	14
8.1. Guidelines for correct measurement	
8.2. The angle of inclination: an important point to consider for measurement and fitting	
8.3. Considerations for fitting	
8.4. Options	
9. USE AND MAINTENANCE	21
10. ROLL-UP TABLES	21
11. ORDER FORM	21
APPENDIX	22

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

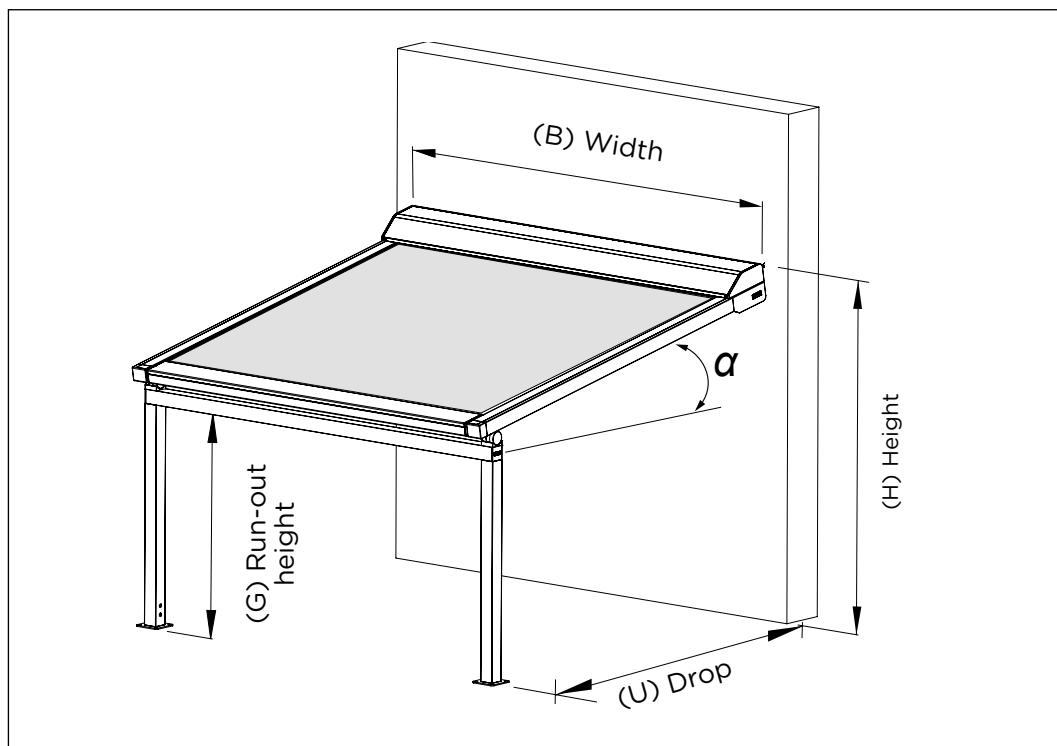
1. GENERAL

- The VERSUZ awning is designed to control solar radiation, which can, to a considerable extent, cause light, sensation and heat discomfort. 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 back of the box is fitted with mounting brackets, which allows the box to be hooked onto the pre-fitted wall brackets.
- 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.
- Once the box is suspended and the guide rails are fixed to the box, the posts with cross beam are positioned at the front and linked to the sun protection awning by a hinge. The posts are anchored in/to the ground.
- The VERSUZ is fitted with a zip system that ensures that at any height position of the extension pole, the fabric will remain neatly stretched and cannot slip free from the guide rails. The sections of fabric are always finished with a zip on the left and right, of which the thicker side slides into a plastic zip profile. This is placed in a separable aluminium guide profile.
- The VERSUZ consists of:
 - A box with an easily removable fabric roll with motor control.
 - A fabric with zip that is rolled up in the box.
 - Separable guide rails to reach the zip guide smoothly.
 - An extension pole with a spring and cords to keep the fabric stretched, with water drainage from the side of the extension pole when using waterproof fabric with a sufficient angle.
 - The posts that the guide rails rest on.
 - A front cross beam provides the horizontal connection between the posts.
 - Zip guide and tensioning system.



2. DIMENSIONS

2.1. General dimensions



- The total width **(B)** = from the outside of the left-hand side bracket to the outside of the right-hand side bracket. The post structure is the same width as the box.
- The drop **(U)**: depth, measured horizontally, from the wall to the front of the vertical post.
- The final position of the extension pole can be set flush with the end of the cover of the guide rail.
- The run-out height **(G)** = height at the front between the posts, from the ground (zero level) to the bottom of the horizontal cross beam.
- Height **(H)** = height from the top of the box to the ground (zero level)
- Angle of inclination **(α)** is obtained by calculation, with the height of inclination A (= the height difference between height H and the run-out height G) and the drop U.

3. PROFILES

Figure 1:

Box

3.1. The box

- Material: extruded aluminium
- Wall thickness: 2.5 mm
- Colour: choice from RAL colour range
- Consists of three sections:
 - a removable chamfered upper section or cover;
 - two parts that together form the lower part
- 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.

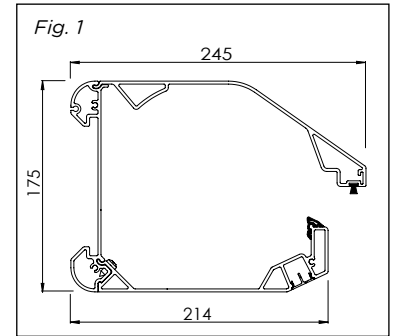


Figure 2:

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

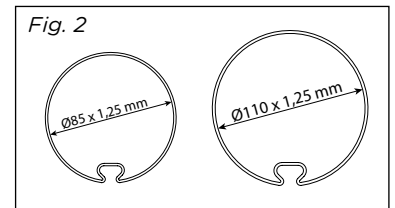


Figure 3:

Clip-on/Clip-off profile

3.3. 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.

Fig. 3

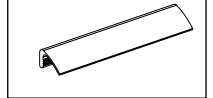


Figure 4a:

Guide rails

3.4a. The separable guide rails

- Material: extruded aluminium
- 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 and into which the cords run.
- Aluminium end caps coated to match the frame.

Fig. 4a

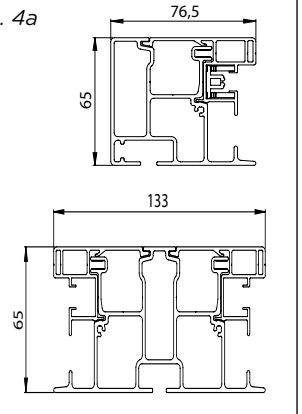


Figure 4b:

Guide rails XL with filler sections

3.4b. The separate guide rails XL - starting from a drop of 4001 mm

- Material: the same
- Wall thickness: 1.5 mm
- Colour: choice from RAL colour range
- Two types: the same
- The profiles have a hollow chamber into which the support pins of the side caps fit and into which the cords run.
- Aluminium end caps coated to match the frame.
- filler sections to create a streamlined connection.

Fig. 4b

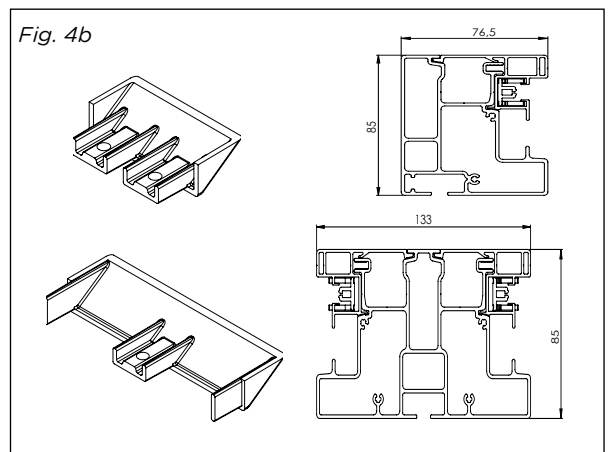


Figure 5:

Zip guide profile with springs

3.5. Zip guide profile

- Material: extruded PVC clip profile
- Function: Absorption of the zip profile on the fabric to keep the fabric stretched in the guide rails with the aid of stainless steel springs.

Fig. 5



Figure 6:

Extension pole

3.6. The extension pole

- Material: extruded aluminium
- Wall thickness: base section 4 mm
- Locking profile 2.5 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 slots of the lateral guides via specially designed carriages.

Fig. 6

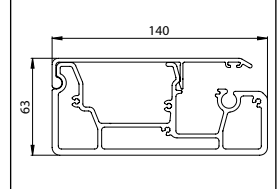


Figure 7:

Post

3.7. The posts

- Material: extruded aluminium with powder coating
- Wall thickness: 2 mm.
- Dimensions: 65 mm x 65 mm
- Colour: choice from the RAL colour range
- Function:
 - The post is fitted with pins, on which the cross beam can be positioned.
 - a base plate is fitted to the bottom.

Fig. 7

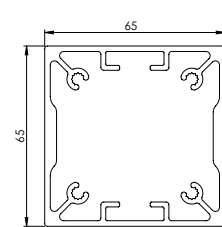


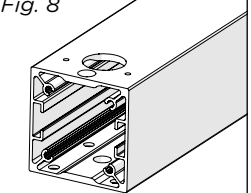
Figure 8:

Cross beam

3.8. Cross beam

- Material: extruded aluminium with powder coating.
- Wall thickness: 2 mm.
- Dimensions: 65 mm x 65 mm.
- Colour: choice from the RAL colour range.
- The hole patterns in this are set to guarantee a smooth connection with the posts.
- These are enclosed at the side with covering plates.

Fig. 8



4. MISCELLANEOUS PARTS

Figure 9a:

Side consoles

Figure 9b:

Coupling consoles

4.1. The side caps

- Material: high-pressure-cast aluminium with powder coating.
- Colour: colour of frame.
- There are 2 types of caps: side caps and coupling brackets

Fig. 9a

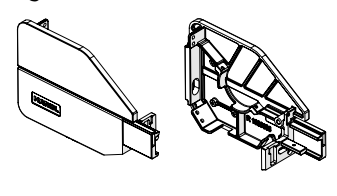


Fig. 9b

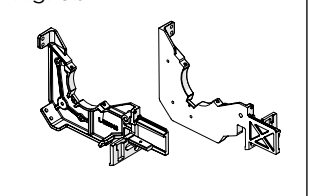


Figure 10:

Cover for guide rail & coupling guide

4.2. 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. 10

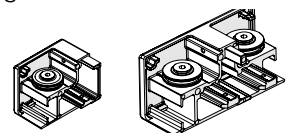


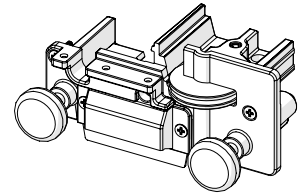
Figure 11:

Carriage

4.3. The carriages

- Material: Plastic injection moulding.
- Colour: black.
- Function:
 - connection of extension pole and guide rails, fitted with two castors that mesh into the running surface of the guide rail.
 - these are screwed into the left and right of the end of the extension pole.

Fig. 11



4.4. The tension system

- Material: the castors, shafts, etc. are made of non-corroding materials.
- Function: fabric and extension pole can be kept constantly stretched using a spring, castors and a Ø2 cord.

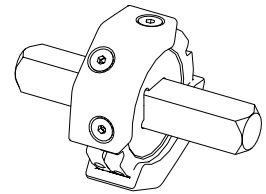
Figure 12:

Coupler

4.5. Coupler

- Material: Stainless materials.
 - Function: coupling 2 fabric sections
 - adjustable in 8 stages.
- Please note: the extension poles may not move in and out at exactly the same time as a result of slight play in the coupling. With linked awnings, it is recommended to always position the motor in the widest part.

Fig. 12



4.6. The wall bracket

Two wall brackets are supplied per section as standard.

Each wall bracket consists of two parts. For larger box widths, extra wall brackets are an available option (option A4269).

Figure 13a:

Wall bracket part 1

Wall bracket part 1

- Material: stainless steel folding piece with small shaft and circlips.
- Function: to make it easy to hook the VERSUZ box onto the wall bracket part 2.
- Wall brackets are fitted to the box, 50 mm from the edges, and match the spacing of the wall brackets part 2.

Fig. 13a

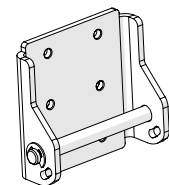


Figure 13b:

Wall bracket part 2

Wall bracket part 2

- Material: aluminium with powder coating
- Dimensions: 90 mm x 122 mm
- Function: support with two slotted holes for M12 bolts for fixing against the wall, with a hook shape on the front for carrying the shaft, a part of wall bracket part 1.
- Fixings for anchoring the wall bracket to the foundation.
- Positioning: must always be 50 mm inwards relative to the edges of the VERSUZ.
- Colour: choice from the RAL colour range

Fig. 13b

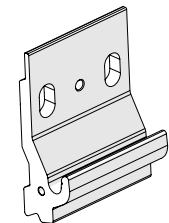


Figure 13c:

Locking plate

Locking plate for wall bracket

- Material: RVS.
- Function: the box is hooked onto wall bracket part 2 using wall bracket part 1. Next, a locking plate is fixed to wall bracket part 2 with an M8, so that the axis of wall bracket part 1 cannot be moved upwards.

Fig. 13c

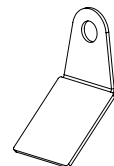


Figure 14:

Hinge

4.7. Hinges

- Material: aluminium with powder coating
- Colour: choice from the RAL colour range
- Consist of two parts, connected with a screw.

Fig. 14

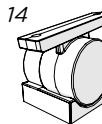


Figure 15:

Post connection bracket

4.8. Post connection bracket

- Material: stainless steel folding piece fitted with two clamp blocks and socket screws.

Fig. 15

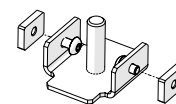


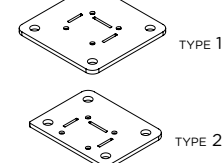
Figure 16:

Foot plates

4.9. Footplate

- Material: Electro-galvanized steel with powder coating.
- Wall thickness of footplate: 5 mm
- Choice of 2 different dimensions:
120 mm x 120 mm / 120 mm x 92.5 mm
- Colour: choice from RAL colour range
- It comes with pre-drilled hole patterns to secure it into the ground.

Fig. 16



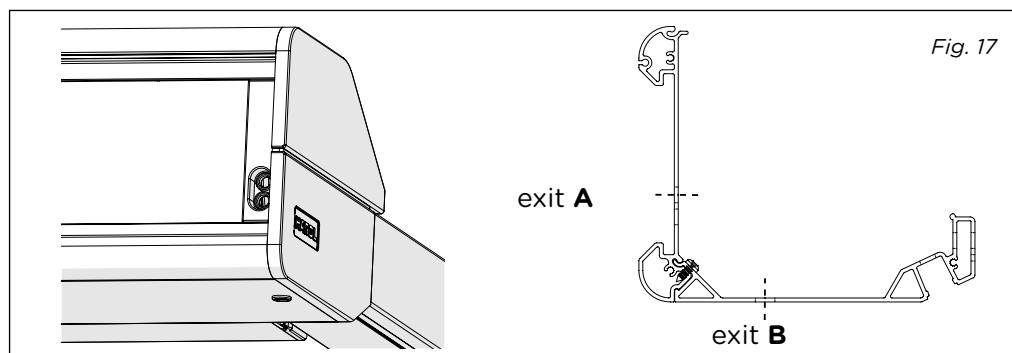
5. OPERATION

5.1. Motor-controlled operation

- Standard:
 - Drive always using tubular motors: 230 Volt (50 Hz).
 - Sunea IO motor with white motor cable (VVF), with cable length of 5 m.
 - Motor without push buttons and operation with Smooove Origin IO transmitter.
 - Operating side as required: far left and/or far right.
 - Operating exit: cable along the back (A) or along the underside (B).

Figure 17:

Exits (cable bushing)



- Other motors:
 - Orea WT motor (A2619) with standard 3-metre white VVF cable, operation with surface-mounted fixed switch.

Summary:

OPTION	MOTOR TYPE	CABLE LENGTH						OPERATION
		WHITE			BLACK			
		3M	5M	10M	3M	5M	10M	
Standard	Sunea 50/60 IO - 17rpm	-	S	O	-	O	-	IO transmitter
A2619	Orea 50/60 WT - 17rpm	S	O	O	O	O	O	Switch

S: Standard O: Optional

5.2. Automation

- Accessories (For this, see the Harol Home Automation folder):
 - Relay boxes
 - Wind-and-solar control
 - Time switches
 - Remote control
 -

5.3. 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. (3000K - 600 lm/m)
- Operation:
 1. **Dimmable IO controls:**
 - The dimmable lighting cannot be operated with Smooove IO controls.
 2. **Without receiver**
 3. **Without controls:**
 - A power cable which can be connected to a switch is included (switch is not included).

6. FABRICS

6.0. Summary

Choice of different types of fabric:

	ACRYL									
	DICKSON						SATTLER			
	Orchestra	MAX	Opera	Symphony	Sperk FR	Infinity	Elements (Cross Fiber)	Lulera	Lumera 3D	Valora
weight ca. (g/m ²)	300	320	330	360	335	290	290	290	295	275
thickness ca. (mm)	0,50	0,70	0,65	0,50	0,60	0,57	0,60	0,57	0,55	0,47
imflammability class	-	-	-	-	B-s1,d0	-	-	-	-	-
Euro-imflammability class	-	-	-	-	M1	-	-	-	-	-
water resistance ⁽¹⁾ (mm)	300	1200	200	450	350	300	370	460	>500	>1000
roll width (mm)	1200	1200	1200	1200	1200	3200*	1200	1200	1200	2600
direction	vertical					horiz.	vertical			horiz.
handling	stitched						stitched			
opening factor	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Gtot	0,05-0,18	0,04-0,17	-	-	-	0,05-0,18	0,03-0,20	0,03-0,21	-	0,02-0,19

	POLYESTER			
	FERRARI		SWELA	
	Soltis 86	soltis 92	Elegance Perla	Elegance
weight ca. (g/m ²)	380	420	340	310
thickness ca. (mm)	0,43	0,45	0,45	0,45
imflammability class	B-s2,d0	B-s2,d0	-	-
Euro-imflammability class	M1	M1	-	-
water resistance ⁽¹⁾ (mm)			>10000	350
roll width (mm)	1770/2670	1770/2670	3000	1200
direction	horizontal		horizontal	verical
handling	welded		stitched	
opening factor	14%	3 a 4%	-	-
Gtot	012-0,22	0,05-0,15		

Remark:

(1) Schmerber ISO 811

Guidelines from the manufacturers of awning fabrics on request.

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

INFORMATION SUNPROTECTION FABRIC / GUIDELINES

Wrinkling :

Waves, wrinkling can occur at the seams, hems or in the middle of the fabric as a result of tension differences. Double-laying the fabric at the seams automatically results in a different stress field than the rest of the awning fabric. This, together with the sagging of the roll-up shaft and/or the bottom rail, especially in the case of larger widths, can lead to wrinkling.

Creasing, folding and rubbing stripes:

These stripes can occur during manufacture, assembly, installation of the awning fabric or during subsequent use. As a result, a dark stripe similar to a pencil mark (especially visible with lighter colours) or a light chalk line (especially visible with dark colours) becomes visible at the location of the folds and kinks.

When manufacturing these cloths, HAROL will always aim for the best quality. Nevertheless, the preceding remarks will have to be taken into account and cannot be used as a complaint because they in no way affect the technical performance of the product and the life span of the cloth.

6.1. 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.

6.2. Soltis 86 and Soltis 92

- 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 radiation.
- 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 aluminium side is always on the outside or on the garden side.
- Minimum angle of inclination 8°.

6.3. Sattler Valora

- 100% mass-dyed acrylic.
- Waterproof and translucent.
- Weather and rot resistant.
- UV resistant.
- Minimum angle of inclination 14°.
- Sunblinds with a drop of ≥ 2600 mm are fitted with a horizontal weld seam!

6.4. Infinity

- 100% acrylic fabric.
- Spun-dyed acrylic fabric with a naturally smooth surface to help resist dirt and stains.
- Minimum angle of inclination 14° (light rainfall)
- Sunblinds with a drop of ≥ 3200 mm are fitted with a horizontal weld seam!

6.5. Elegance (Swela)

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

6.6. Finish

Zips are placed on the sides of each fabric, and with correctly fitted guide rails, the zips ensure that the fabric is taut in

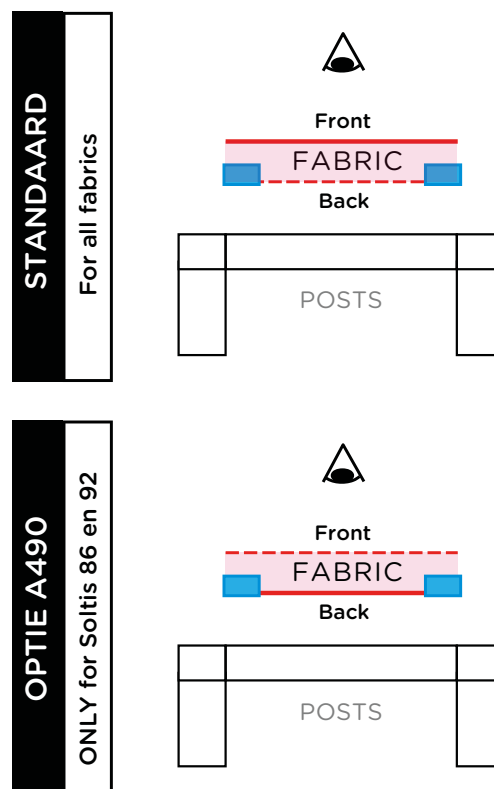
any height position of the extension pole, thanks to the tension between the zip and the guide rails.

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.

With all fabrics, the zips are always on the bottom of the fabric, or, in other words, concave towards the ground. In addition to the options of having one or more colours printed on the fabric (options A2200 and A2201), only the Soltis 86 and 92 fabrics have the option of reversing the fabric colour or fabric side on the awning (option A490), see drawing.

Option A490 does not apply to Infinity and the Sunvas Perla!



LEGEND

FRONT

FABRIC

BACK

* ALU-SIDE WITH SOLTIS FABRIC (IN 2 COLORS)

* COLOR SIDE WITH SOLTIS FABRIC (IN 2 COLORS)



* ZIP

7. WEIGHT

The approximate weight of the box, based on a fabric roll of Ø110, an LT-50 motor and a Soltis fabric and the weight of two standard lateral guides, can be found in the table below.

For a VERSUZ with a width of 2.5 metres, a drop of 2 metres and a height of 2 metres, the total weight is approx. 90 kg.

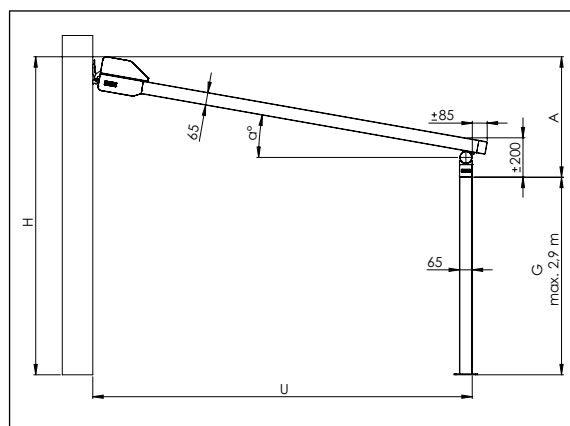
BOX		2 LATERAL GUIDES		COUPLING GUIDE		POST STRUCTURE	
LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
1.0 m	Approx. 25 kg	1.0 m	Approx. 5 kg	1.0 m	Approx. 4 kg	1.0 m	/
1.5 m	Approx. 35 kg	2.0 m	Approx. 10 kg	2.0 m	Approx. 8 kg	2.0 m	Approx. 25 kg
2.0 m	Approx. 45 kg	3.0 m	Approx. 15 kg	3.0 m	Approx. 12 kg	3.0 m	Approx. 37.5 kg
2.5 m	Approx. 55 kg	4.0 m	Approx. 20 kg	4.0 m	Approx. 16 kg		
3.0 m	Approx. 65 kg						
3.5 m	Approx. 75 kg						
4.0 m	Approx. 85 kg						

8. MEASUREMENT AND FITTING

8.1. Guidelines for correct measurement

- Make sure that the system is perfectly parallel and square.
Accurate measurement ensures quicker and easier fitting.
- Make sure that the zero-level measurement is exact.
- Ensure that the foundation is sufficiently solid for the installation of the foot supports.
- N.B. for relatively weak walls: a standard fixing pack is not supplied.

Ask your specialist supplier for advice (e.g. Fischer, Würth, Hilti, etc.)



- A: Inclination height = H - G*
- B: Width*
- G: Run-out height (max. 2.9m)*
- H: Height to top of box*
- P: Extend posts*
- Q: Shorten posts*
- U: Drop*
- U': Total drop including the overhang = U + Z*
- X: Post moved inwards*
- Y: Post moved outwards*
- Z: Overhang*
- a: Hellingshoek*

**See 8.3 options*

8.2. The angle of inclination: an important consideration for both measurement and fitting

HEIGHT OF INCLINATION (A) IN RELATION
TO ANGLE OF INCLINATION AND DROP

		Angle of inclination (α)			
		8°	10°	14°	30°
Drop (U)	1500	487	537	640	1102
	2000	557	625	765	1391
	2500	627	714	889	1679
	3000	698	802	1014	1968
	3500	768	890	1139	2257
	4000	838	978	1263	2545
	4500	909	1066	1388	2834
	5000	979	1154	1513	3123
All values in mm					

Minimum angle of inclination

► Soltis 86 / Soltis 92

- without LED lighting 8°

- with LED lighting 10°

► All other fabrics 14°

Maximum angle of inclination

30°

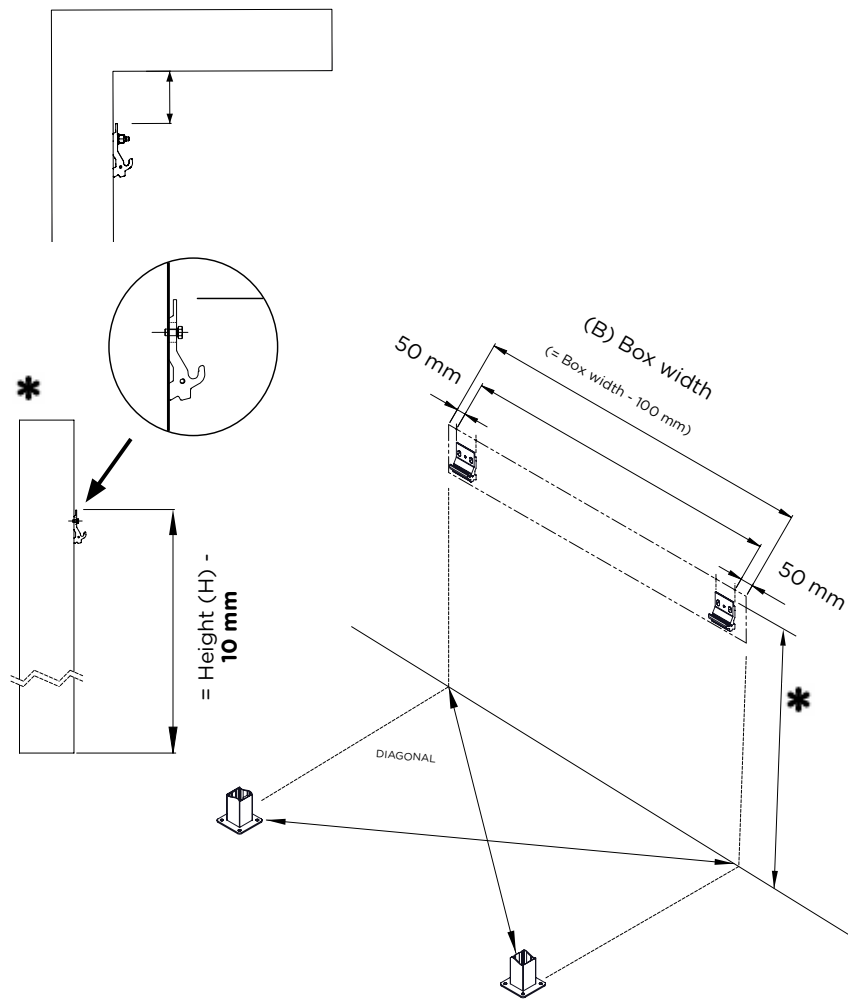
(See also FABRICS)

ATTENTION: ALWAYS CHECK THAT THE INCLINATION OF THE FRAMEWORK IS GREATER THAN OR EQUAL TO THE VALUES IN THE TABLE ABOVE TO ENSURE PROPER WATER DRAINING ALONG THE FRONT!

If the inclination dimensions (A) are not observed, this may result in poor rain water drainage. HAROL cannot be held responsible for any damage to the product or sagging to the fabric this causes. If the inclination is too small, the product can only be used as sun protection and not as rain protection!

If fitting a VERSUZ with an angle of inclination smaller than the one mentioned above, then it is a requirement to complete the document "Uniform document slopes".

8.3. Considerations for fitting



This type of sun protection has only one fitting option: wall-mounting. The back of the box is fitted with suspension brackets. These allow the box to be hooked into the pre-installed wall brackets. Once the box is suspended, the posts (with cross beam) are positioned at the front and are connected to the sun protection with a hinge. The posts are anchored in/to the ground. If a waterproof fabric is being used, the water is drained into the gutter via the side from the extension pole (if the angle is sufficient).

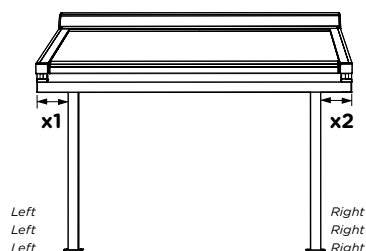
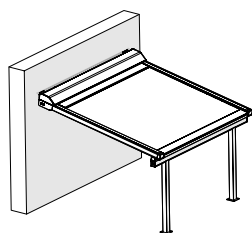
- Always ensure right-angled fitting. It is important not to forget to measure the diagonals. If the fitting is not right-angled, it will greatly increase the risk of wrinkles in the fabric.
- Provide at least 120 mm of free space above the wall bracket for the Versuz box to be able to open smoothly.
- The standard overhang is 85 mm, the maximum overhang is 1000 mm. This may cause the extension pole to be lower than the run-out height.
- The standard post structure is as wide as the sun awning. However, the posts can be moved inwards or outwards, each up to a maximum of 500 mm (see options A1620 and A1621).



Ensure 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!

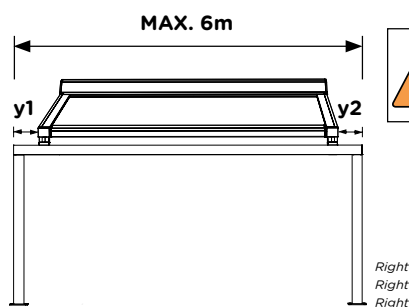
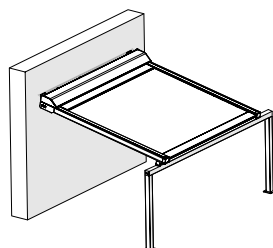
8.4. Options

OPTION 1 A1620 post inwards



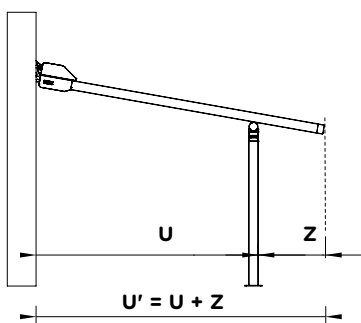
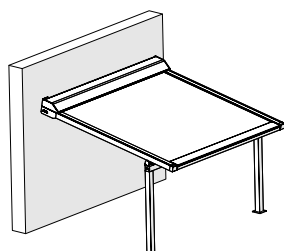
x(1)(2): Min. 65 mm
Max. 500 mm

OPTION 2 A1621 post outwards



y(1)(2): Min. 65 mm
Max. 500 mm

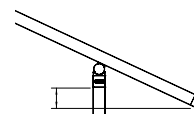
OPTION 3 A1622 overhang



Z: Min. 85 mm
Max. 1000 mm

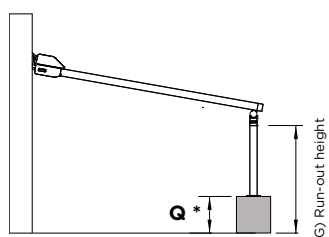
Please note!

this may cause the extension pole to be lower than the run-out height (G)



U' = MAX. 5m

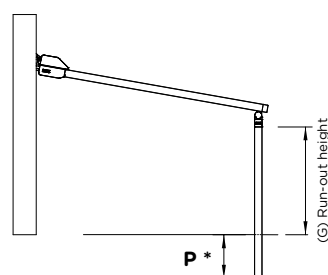
OPTION 4 A1623 shorten post



Minimum post size → 100mm

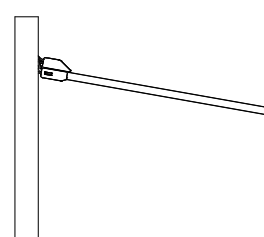
* INDICATED HEIGHT IS THE SECTION BY WHICH THE POST IS SHORTENED IN HEIGHT.

OPTION 5 A1624 extend post



* INDICATED HEIGHT IS THE SECTION BY WHICH THE POST IS LENGTHENED IN SIZE.

OPTION 6 A1657 without posts



* IN THIS OPTION, BOTH THE POSTS, THE HINGES AND THE CROSSBEAM ARE NOT PROVIDED.

OPTION 7 A1552

wall insert

If desired, a wall insert can be fitted to create a waterproof seal for the opening between the box and the wall. Two aluminium profiles are used combined with a cover plate at each side. A rubber strip is fitted to the profile in direct contact with the box.

- Hinged: can easily be removed to gain access to the box.
- Finished in the same colour as the rest.

Figure 19:

Wall insert top profile 1

Wall insert top profile 1

- Material: extruded aluminium with powder coating
- Wall thickness: 2 mm.

Fig. 19



Figure 20:

Wall insert top profile 2

Wall insert top profile 2

- Material: extruded aluminium with powder coating
- Wall thickness: 2 mm.
- With rubber strip.

Fig. 20

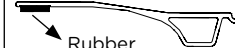


Figure 21:

Wall box cover plate

Wall box cover plate

- Material: aluminium with powder coating
- Plate is sawn to the correct angle on site during installation

Fig. 21



Figure 22:

Bracket cover plate

Bracket cover plate

- Material: stainless steel.

Fig. 22

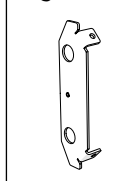


Figure 23a:

Standard

Fig. 23a

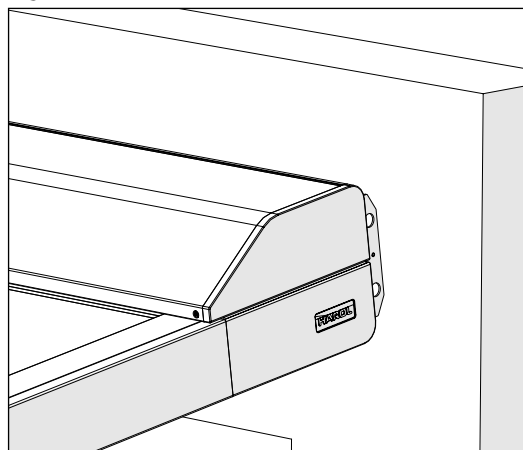
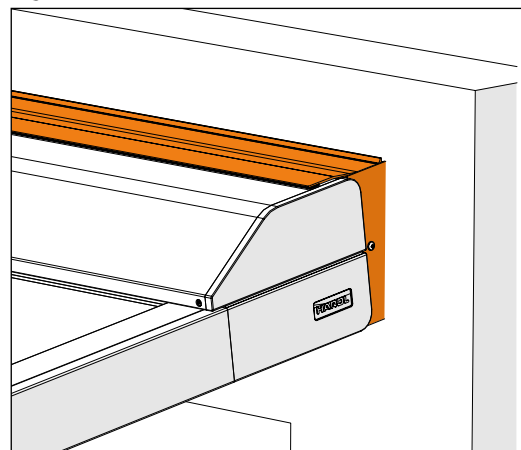


Figure 23b:

With wall junction

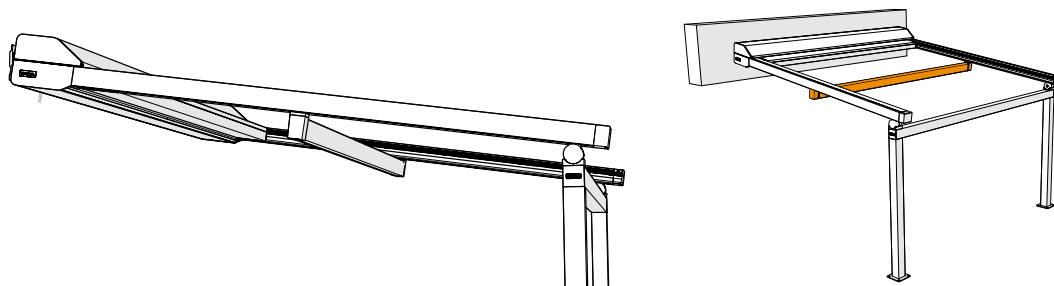
Fig. 23b



* If fitted against a wall: must be sealed

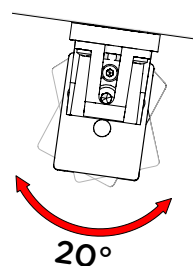
OPTION 8 A4204 Fabric support

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 ambience 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.



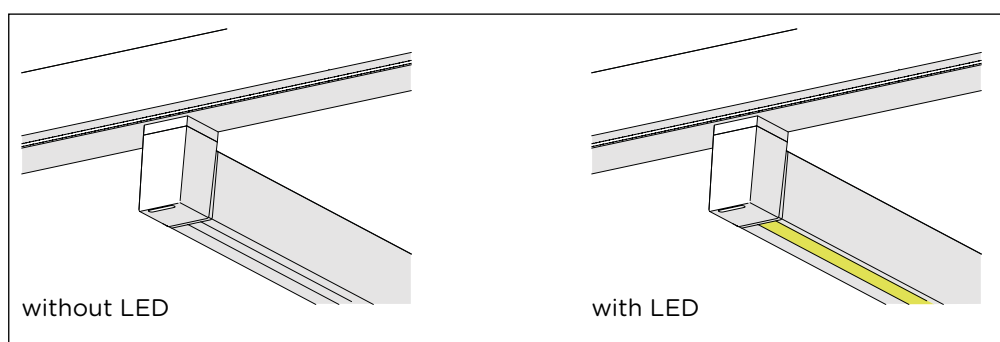
- Operation:

1. Dimmable IO controls:

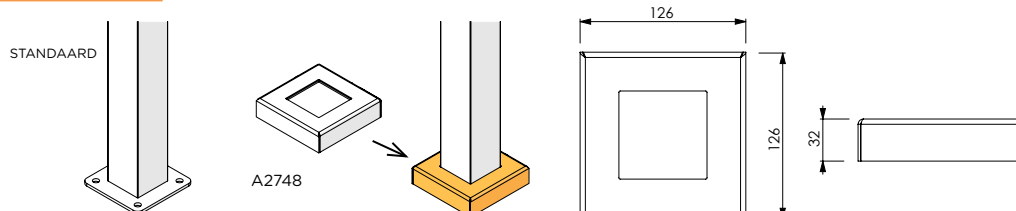
- The LED lighting can be operated with all IO controls.

2. Without controls:

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



OPTION 9 A2748 Cover footplate



9. 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. When a waterproof fabric is being used, water is drained in an uncontrolled fashion at the sides of the extension pole. There is no water collection mechanism (gutter) underneath the cross beam.
- 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.
- Not for 100% rain protection. (rainwater can penetrate between the wall and the box.).

10. ROLL-UP TABLES

Below is a list of the possible dimensions for a VERSUZ Type1 (single screen). For VERSUZ Type 2, Type 3 or Type 4 there are two or more fabrics, each of which can be found in the table below.

SOLTIS 86, 92, INFINITY					width														
					1500	1750	2000	2250	2500	2750	3000	4000	4250	4500	4750	5000	5250	5500	5750
height		500																	
		750																	
		1000																	
		1250																	
		1500																	
		1750																	
		2000																	
		2250																	
		2500																	
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		3250																	
		3500																	
		3750																	
		4000																	
		4250																	
4500																			
4750																			
5000																			

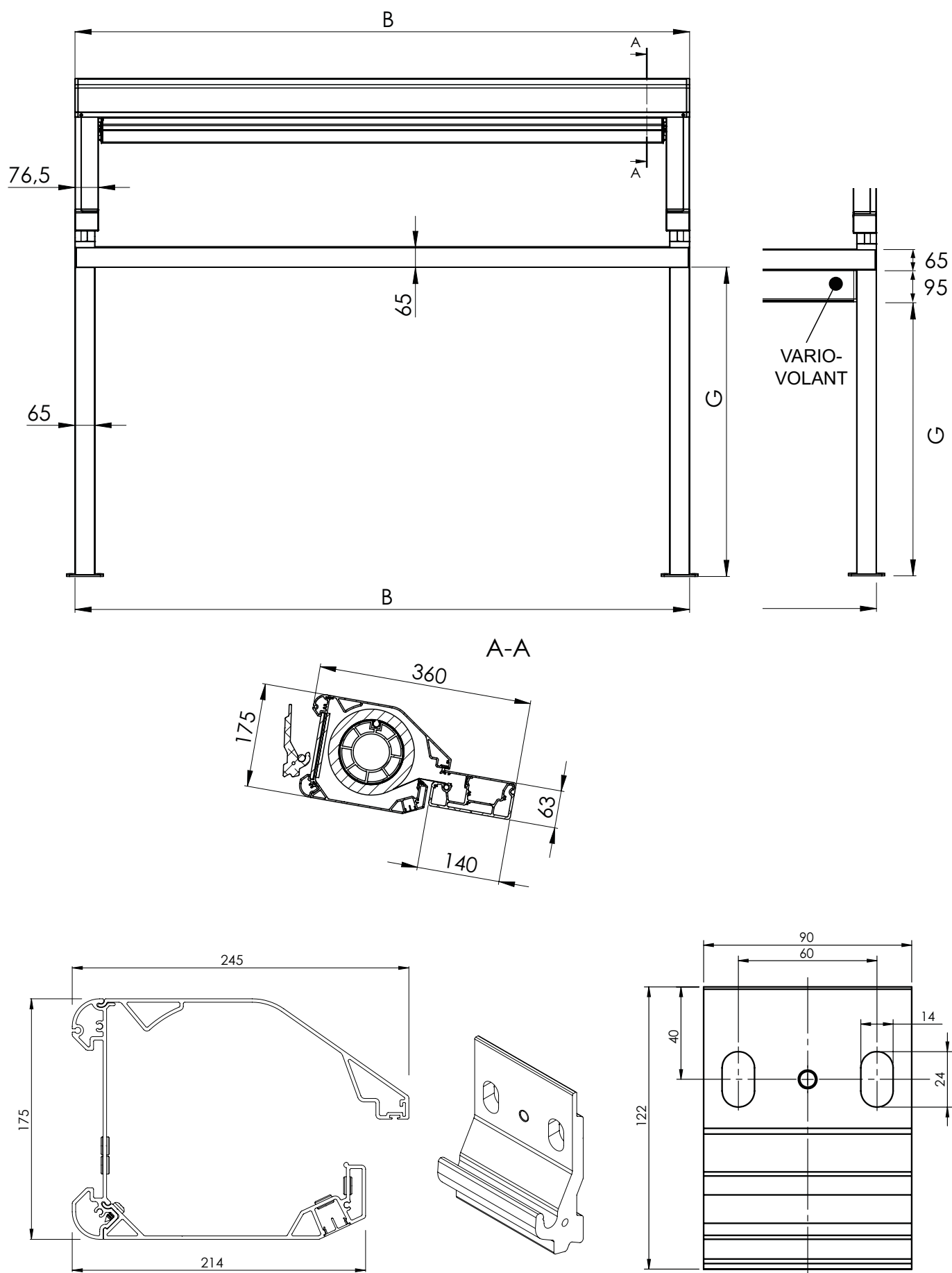
SUNVAS PERLA					width									
					1500	1750	2000	2250	2500	2750	3000	4000	4250	4500
height		500												
		750												
		1000												
		1250												
		1500												
		1750												
		2000												
		2250												
		2500												
		2750												
		3000												
		3250												
		3500												
		3750												
		4000												
		4 250												
4 500														
4 750														
5 000														

11. ORDER FORM

Click on the link below:



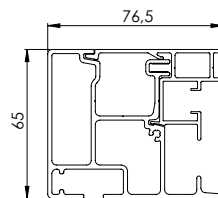
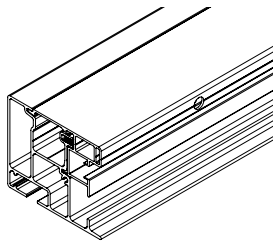
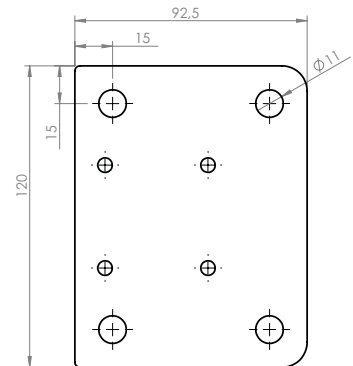
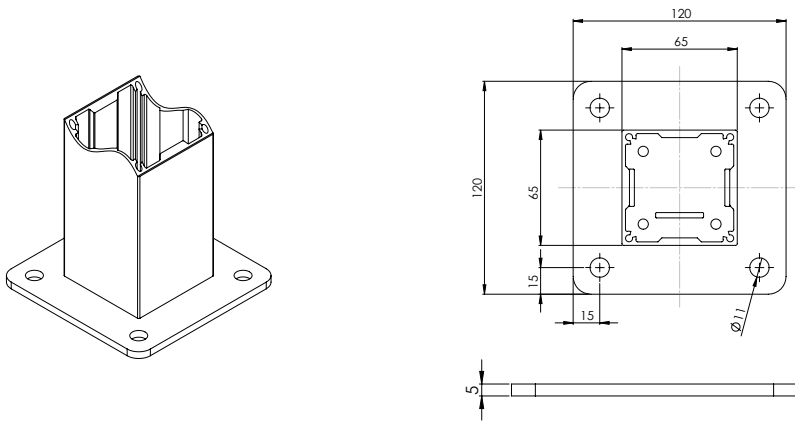
APPENDIX



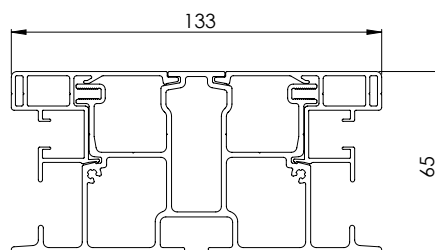
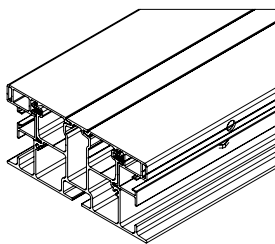
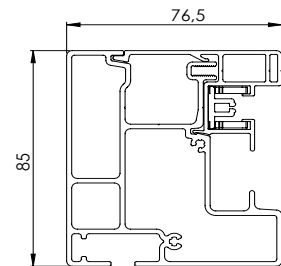
APPENDIX

STANDARD

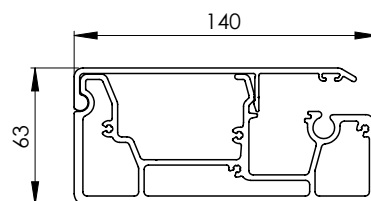
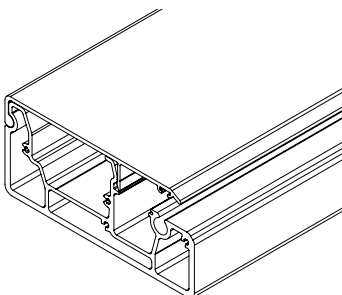
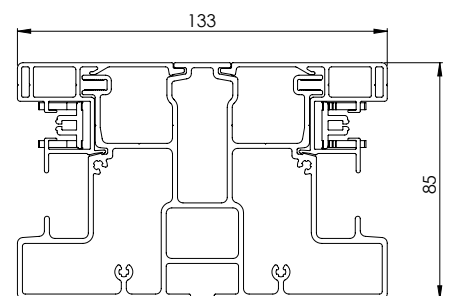
TYPE 2



XL



XL



INCLINATION UNIFORM DOCUMENT

FROM - (customer name / contact) :

SUBJECT - (order no.) :

REFERENCE :

We confirm that we are waiving the recommended minimum inclination as stated in the Harol price list and technical documentation. The recommended inclination guarantees proper water drainage. Failure to comply with the recommended guideline can lead to poor drainage of rain water and potential damage to or sagging of the fabric.

We will inform the end user that this solution can only be used as sun protection and not as a rain barrier.

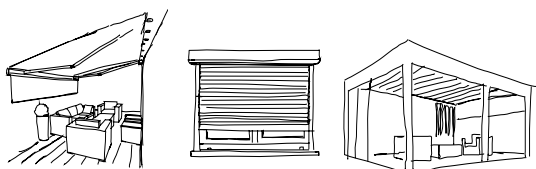
Harol accepts no liability for damage resulting from failure to comply with the recommended inclination.

Date

Name

Signature

.....



HAROL