

PRAIA

Article number: 065876

TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

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TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

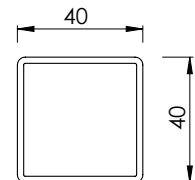
1. GENERAL

- The Harol PRAIA is a lateral-arm, three-tube awning.
- Its construction is characterised by a supporting pole to which the consoles, arms and roll-up shaft are attached.
- Colour of the aluminium parts and profiles: standard in the chosen frame colour (see colour card).

2 THE PROFILES

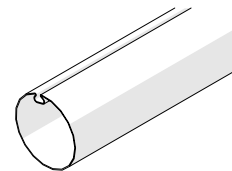
2.1. . The supporting pole

- Material: square, welded tube, 40 x 40 mm, made of a 2 mm-thick Sendzimir-galvanised steel band
- Colour: standard in the chosen frame colour (see colour card).
- Function: load-bearing awning base profile to which the other parts are attached



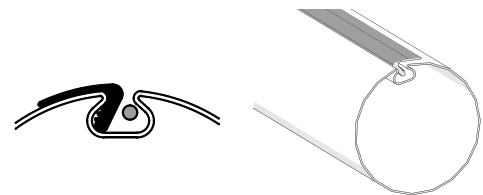
2.2. The roll-up shaft

- Material: round, welded tube made of a Sendzimir-galvanised steel band
- Function: rolling up and unrolling of the fabric
- Equipped with a groove for attachment of the fabric
- Diameter: Ø85 x 1.25 mm.



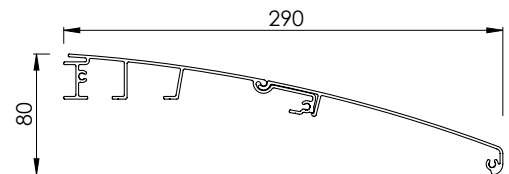
2.3. The Clip-On/Clip-off profile

- Material: extruded PVC clip profile
- Function: screwless attachment of the fabric to the roll-up shaft
- Makes it possible to quickly and easily attach and detach the fabric



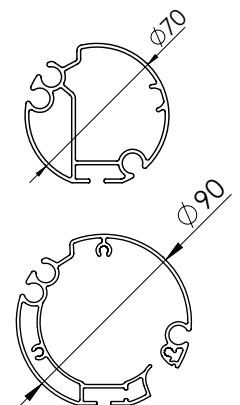
2.4. The cap profiles

- Optional (option A1441)
- Material: extruded aluminium with powder-coated finish
- Function: covers the top side of the fabric over its entire width
- Two-part construction



2.5. The front frames

- Material: extruded aluminium with powder-coated finish
- Equipped with:
 - on the top side:
 - two grooves for the attachment of the awning fabric and the fabric from the gap cover
 - a rain gutter for water drainage
 - on the underside:
 - a groove for the attachment of a valance
- The ends are covered with aluminium caps (coated in the same colour as the front frame).
- Standard: round front frame (diam. 70 mm)
 - does not completely conceal the arms (to be resolved by a volant)
- Optional: Front frame with Variovolant (see section 10.2) (diam. 90 mm)



3. OTHER PARTS

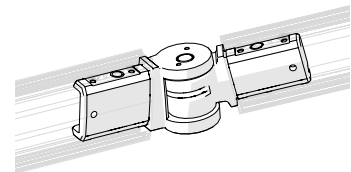
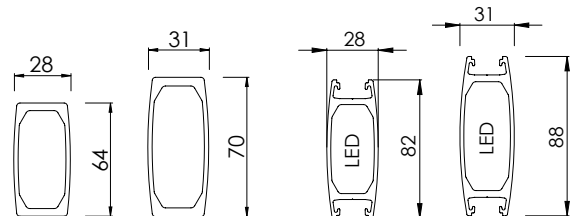
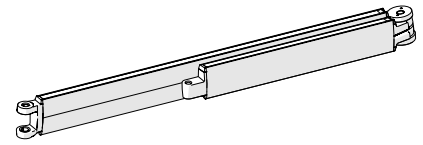
3.1. The lateral arms

- Push the front frame outward and generate the tension on the awning fabric when opening
- Connect the box to the front frame
- Available with the following projections: 1500, 2000, 2500, 3000, 3500 and 4000 mm
- Up to a width of 6000 mm, install 2 arms; from 6001 mm to 7000 mm, install 3 arms.
- -Available with integrated LED lighting (optional)

- The arm profiles: :
 - Material: extruded aluminium with powder-coated finish.

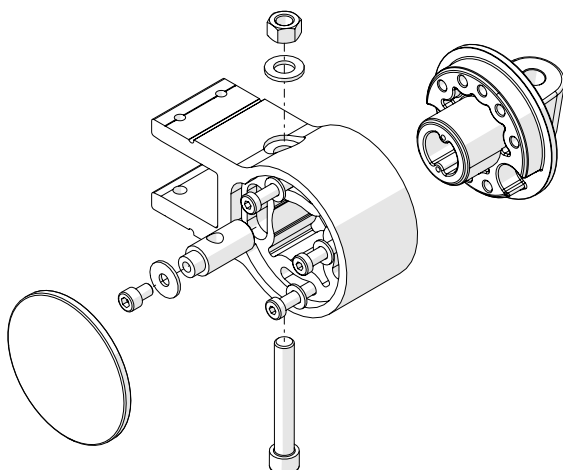
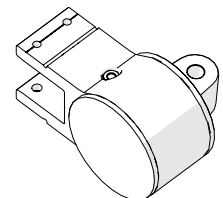
- The hinges::
 - Material: cast aluminium alloy
 - Hinges on slide bearings made of sintered bronze with a PTFE sliding layer
 - The parts subject to the heaviest loads are thermally treated.

- The springs and the steel cables:
 - Material: pre-galvanised, high-quality steel
 - The diameter of the cables is proportional to the forces applied.
 - The force exerted by both springs is distributed over 2 steel cables:
 - distribution of the forces
 - *notable increase in service life*



3.2. The angle adjustment

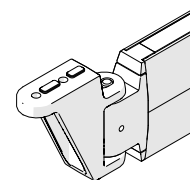
- Material: aluminium parts with powder-coated finish
- Function:
 - connects the lateral arms to the supporting pole
 - enables infinite adjustment of the incline of the sunshade
- The angle can be adjusted from 10° to 45°.
- Safeguards the arms from being blown upward and from sagging downward.



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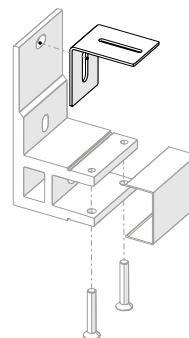
3.3. The front frame attachment

- Material: aluminium with powder-coated finish.
- Connects the lateral arm to the front frame.
- Function: adjusts the front frame to the correct position after setting the incline of the sunshade



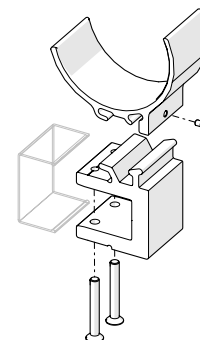
3.4. The cap support

- Material: aluminium with powder-coated finish.
- Function: The cap is connected to the
 - supporting pole at regular intervals by means of cap supports.



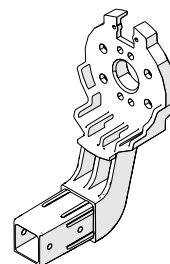
3.5. Fabric roll support

- Function: prevents the sagging of the fabric roll and maintains the fabric tension
- Is installed standard at widths >5 m
- Always mounted at a double seam in the centre of the awning
- Consists of two parts for easy assembly and disassembly
 - the support, which glides over the torque bar, is coated in the chosen colour of the awning
 - the shell-formed part is coated in grey
- Not possible in combination with «Infinity» fabric.



3.6. Bearing support with side cap

- Material: aluminium parts with powder-coated finish
- Function: connects the fabric roll to the square supporting pole



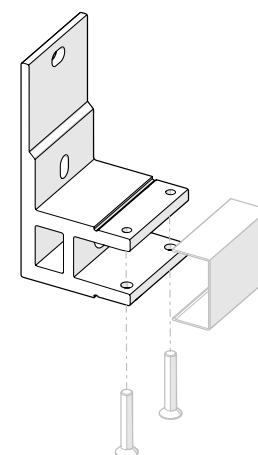
3.7a. Attachment consoles

For attaching the awning to the desired foundation, there are a number of attachment consoles available:

- Standard
 - For normal mounting against a wall
 - Material: extruded aluminium with powder-coated finish
 - Width: 100 mm and fitted with three mounting holes with grooves
 - The front side is fitted with an opening through which the supporting pole slides.
 - Must always be positioned as close as possible along the lateral arm
 - The number of wall consoles supplied is always a function of the width of the awning.
 - Additional consoles are available (optional) if there is sufficient space in the awning.

Awning width	Number of consoles
2000 - 3000mm	2
3001 - 6000mm	3
6001 - 7000mm	4

Table 1: Number of consoles



Wall console

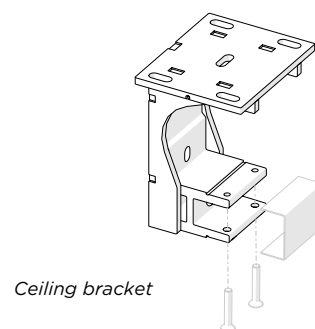
- In the case of unstable foundations, it is best to install additional wall consoles in order to distribute the weight of the awning over more points.

- Packing plate for wall consoles: (option A2512)
 - For better alignment/packing of the wall consoles on the wall (100 x 170 x 3)

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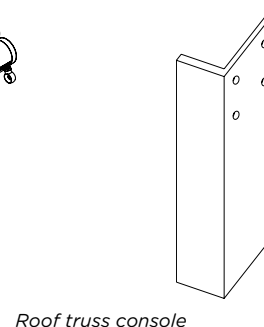
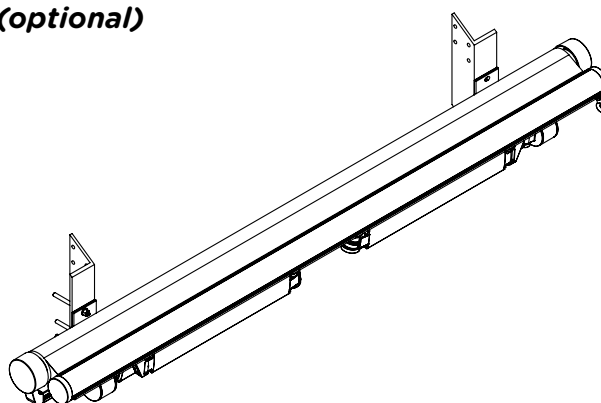
3.7b. Ceiling brackets + wall consoles: (optional A212)

- For mounting on a ceiling, under a balcony etc.
- Material: extruded aluminium and folded plate, with powder-coated finish.
- Width: 200 mm and fitted with three mounting holes with grooves
- The front side is fitted with an opening through which the supporting pole slides.
- The number of wall consoles supplied is always a function of the width of the awning (see table above).



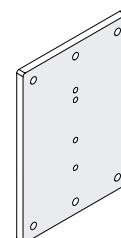
3.7c. Roof truss consoles: (optional)

- For mounting to a roof truss
- Material: extruded aluminium with powder-coated finish
- Always used in combination with the wall consoles



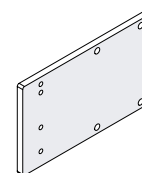
3.7d. Reinforced backplate: (optional A1654)

- For mounting on a ceiling, under a balcony, etc.
- Material: cast aluminium (thermally treated), powder-coating finish.
- Width: 250 mm with two mounting holes with grooves.
- Thickness : 15mm



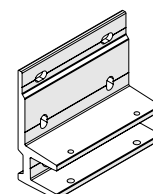
3.7e. Side plate wall console: (optional A2746)

- Side plates are recommended when an awning needs to be mounted close to a corner or at the end of a wall. The wide side plate ensures that we can still anchor on a solid surface, e.g. the internal wall.
- Material: cast aluminium (thermally treated), powder-coating finish.
- Width: 350 mm and fitted with 4 mounting holes for M12.
- Thickness : 12mm



3.7f. Wide Wall Console : (optional A2745)

- For normal mounting against a wall
- Material: extruded aluminium with powder-coating finish.
- Width: 220 mm and fitted with three mounting holes for M12.
- The front side is fitted with an opening through which the supporting pole slides.
- Must always be positioned as close as possible along the lateral arm.



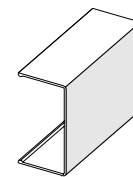
3.8. The bearing supports

- Material: extruded aluminium with powder-coated finish
- Function: to provide bearing support of the two fabric rolls where they are connected to the awning

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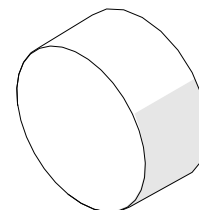
3.9. Protective covering for screws

- Material: extruded aluminium with powder-coated finish
- Colour: black or white, depending on the colour of the frame
- Function: covers all visible attachment screws of the parts that are mounted on the supporting pole
- Provides protection against possible lacquer damage



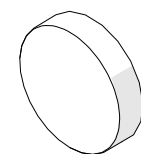
3.10. The side caps for the box

- Material: cast aluminium with powder-coated finish
- Function:
 - to close off the awning from the sides
 - suspension of the controller and the bearings
- Attached on both sides to the supporting pole



3.11. The cover caps for the front frame

- Material: cast aluminium with powder-coated finish
- Function: finishing of the front frame



3.12. Attachment materials

Lateral-arm awnings exert immense forces on the foundation on which they are mounted. Therefore, it is recommended that the awning is attached using chemical anchors (Hilti, Würth, ...) or other attachment materials.

4. MINIMUM AND MAXIMUM FORMATS

WIDTH

Maximum

- 6 m in 1 section with 2 arms
- 7 m in 1 section with 3 arms
- 12 m in 2 sections with 4 arms

Minimum

- Depends on the chosen projection
- Awnings with 2 arms ► projection + 650 mm
- Awnings with 3 arms ► (projection x 1,5) + 800mm

PROJECTION

Maximum

- 4m

Minimum

- 1,5m

For linked awnings, see section 5 below.

THERE IS A CHANCE THAT THE FABRIC WILL HIT THE ARMS WHEN OPENING AND CLOSING THE SCREEN ESPECIALLY AT 3.5 AND 4M EXTENSION. THE FABRIC WILL ONLY BE FULLY TENSIONED AT FULL OPENING.

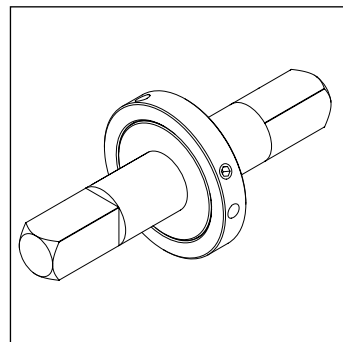
5. LINKED SUNSHADES

5.1. Linking with one continuous fabric

- Front frame, cap, supporting pole and roll-up shaft are joined together to form continuous profiles using connectors.
- The fabric is one continuous piece and must be installed on-site by the installer.
- W_{min} (per awning section) = projection + 650mm

5.2. Linking with a universal joint

- The two sections are connected together at the roll-up shaft using two stainless steel coupling discs.
- The front frame, cap and the supporting pole are joined together to form continuous profiles using connectors.
- The fabric used is two separate sheets and is always mounted on both sections of the awning.
- W min (per awning section) = projection + 650mm



Coupling discs

5.3. Linking with universal joint and fabric gap cover

- Same as Linking with universal joint (see 5.2. above)
- The gap between the two fabrics is covered with a fabric gap cover.
- W min (per awning section) = projection + 890mm.

Linking options

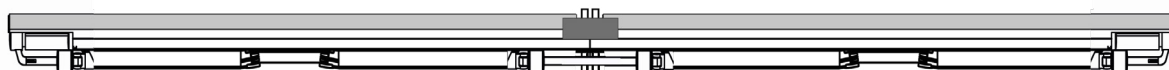
Linking with one continuous fabric



Linking with a universal joint

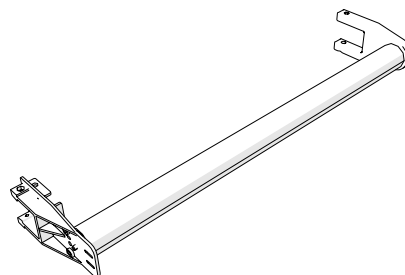


Linking with universal joint and fabric gap cover



5.4. Fabric gap cover

- A spring shaft is positioned under the fabrics at the gap.
- The spring shaft is attached to two supports made of transparent plastic.
- The fabric is attached to the shaft using double-sided adhesive ribbon.
- On the front side, the fabric is slid into the fabric groove on the front frame.
- The width of the fabric gap cover is 63 cm.
- When unrolling the awning, the front frame pulls the fabric with it and unwinds the fabric from the spring shaft. This fills the gap in the fabric.



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6. WEIGHT

- The approximate weight is
 - ± 13 kg per metre (width).

7. OPERATION

Two control systems: electric control & rod control.

Electric control

The standard motor used in the Sunea IO motor, without push buttons and operated using an IO transmitter.

- IO transmitter.
- cable length: 5 m

Optional:

- without IO wall transmitter.
- cable length: 10 m instead of 5 m
- other types of motors: LT

Prod. Type	MOTOR TYPE	OPTION	Extra charge	CABLE LENGTHS		
				3M	5M	10M
PRAIA	Sunea IO	Standard	-	-	S	X
	LT	A1546	Minus price	S	X	X**
	CSI IO	A1611	Surplus price	S	X	X

S: Standard X: Option

Note; The upper and lower positions of the motor have already been adjusted in the factory.

Rod control.

- Standard:
 - self-locking, worm-worm wheel mechanism.
 - with a 7:1 transmission ratio
 - crank rod with cross bar: length 1600 mm
 - maximum possible width for rod control is 6000 mm.
- Optional:
 - longer crank rod.

8. FABRICS

Acrylic:

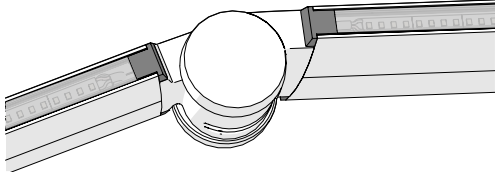
- Composition: Acrylic fibre coloured in the mass.
- Colour: Patterns and monochrome, based on the collection book
- Weight: $\pm 290 - 300 \text{ gr/m}^2$
- Thickness: $\pm 0.5 \text{ mm}$
- Finish:
 - Vertical bands, 1200 mm
 - Side hems, 50 mm
 - For a 4000 mm projection: side hems 100 mm
 - Double fill stitch with polyester thread
 - Treated to resist rotting, mould-resistant and repels dirt

Wide width canvas:

- Infinity with a max. roll width of 3200 mm
- Colour: uni-colours only
- Fabric confectioning:
 - 1 horizontal strip
 - no side hems
 - always “Closed-edges” confectioning
 - max. width of 5000 mm

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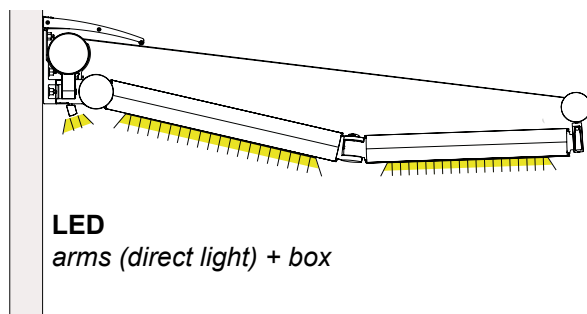
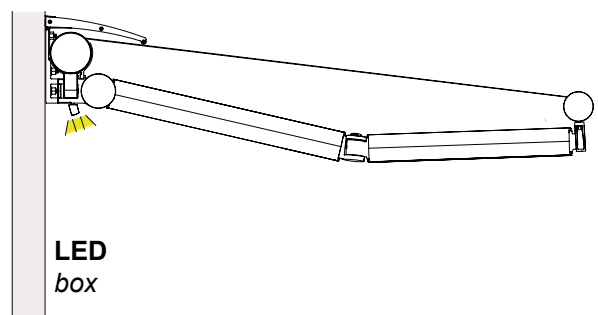
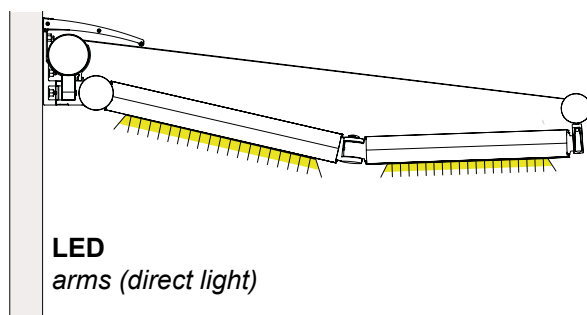
9. LED

- Optional
 - possibilities:
 - on the underside of the arms
 - under the box
 - With both options, a power supply unit is mounted on the supporting pole.
- 
- The lighting consists of an LED profile, an LED strip, a power supply (230V AC – 24V DC) and a receiver, if applicable.
 - The LED strip is glued into the arm profiles.
 - The power supply and receiver if applicable, are mounted on the supporting pole.
 - The ends of both arm profiles may be somewhat less strongly lit, depending on the cutting length of the LED strip.
 - The LED strip is powered by 24V, 9.6W/m.
 - The lighting is intended for use as atmospheric lighting. LED colour is warm white (600 Lumen/ metre - 3000 (K) kelvin).

Operation

- There are 2 options possible for operating the LED lighting:
Power supply and receiver integrated into the awning:
 1. **Dimmable IO control**
The lighting cannot be operated using Smooove IO controllers.
 2. **Without receiver**
A power supply cable is provided which can be connected to a control button.
- The remote-control units are not included with the LED lighting.
- 3-metre electric cable.

Possible positions



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10. MEASURING AND ASSEMBLY

10.1. Guidelines for taking correct measurements

– Width:

- measured between outside edges of side caps on the box
- The fabric is always narrower than the width of the awning.

– Projection:

- measured from the rear of box (on the top) to the front of the front frame
- A mounted sunshade always projects out further (relative to the wall) than the stated projection.

For optimal sun protection, the sunshade must extend far enough to the left and right of the window.

10.2. Mounting

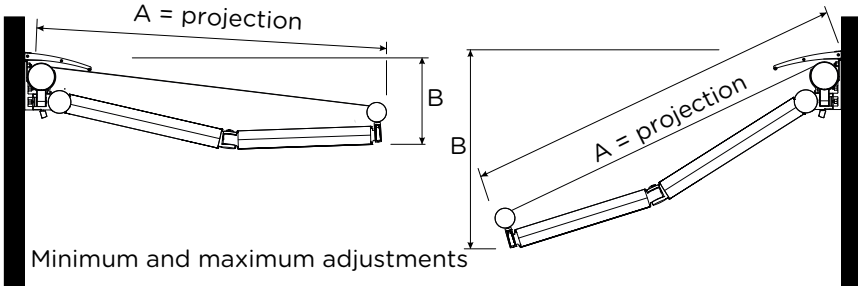
– Take into account the quality of the foundation onto which the awning is mounted:

- In the case of poor-quality walls, walls made of aerated concrete or soft or hollow stones:
 - use specially adapted attachment materials.
 - install extra wall consoles.

– Mount the awning sufficiently high (min. 2500 mm).

Adjust the incline of the awning between a minimum of 10° and a maximum of 45°.

(Ensure sufficient headroom when the awning is open.)

A mm	B mm			A mm	B mm
1500	320			1500	1100
2000	405			2000	1455
2500	490			2500	1810
3000	580			3000	2165
3500	665			3500	2515
4000	750			4000	2870

10.3. wind resistance class and FORCES ON SCREWS

– This folding arm awning has been tested for use up to max. wind resistance class 2, with correct-mounting(materials). With wind resistance class 2, the following forces occur on screws:

PRAIA (Acryl) with standard extension pole

Traction force per upper fasteningspoint, per standard wallbracket [N].

U \ B	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
1500	627	685	743	801	860	918	976	1035	1093	1151	1210	1268	1326	1384	1443	1501	1081	1120	1159	1198
2000			1207	1303	1399	1495	1591	1687	1783	1879	1975	2071	2167	2263	2359	2455	1764	1828	1892	1956
2500					2064	2207	2350	2493	2635	2778	2921	3064	3207	3349	3492	3635	2609	2705	2800	2895
3000							3254	3452	3651	3850	4048	4247	4446	4645	4843	5042	3616	3748	3881	4013
3500									4830	5093	5357	5621	5885	6148	6412	6676	4784	4960	5136	5311
4000									6171	6509	6847	7185	7523	7860	8198	8536				6790

For wall console 220 mm, the forces are halved.

PRAIA (Acryl) with variovolant

Traction force per upper fasteningspoint, per standard wallbracket [N].

U \ B	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
1500	805	884	962	1040	1118	1196	1275	1353	1431	1509	1587	1666	1744	1822	1900	1978	1413	1465	1517	1569
2000			1498	1621	1743	1866	1988	2111	2233	2356	2478	2601	2723	2846	2968	3091	2206	2288	2370	2451
2500					2495	2671	2847	3023	3199	3375	3551	3727	3903	4078	4254	4430	3162	3279	3396	3514
3000							3850	4089	4327	4566	4804	5043	5281	5519	5758	5996	4279	4438	4597	4756
3500									5619	5929	6239	6549	6859	7169	7479	7789	5557	5764	5971	6178
4000									7073	7464	7854	8245	8636	9027	9418	9809				7779

For wall console 220 mm, the forces are halved.

PRAIA (Acryl) with backplate

Traction force per upper fasteningspoint, per standard wallbracket [N].

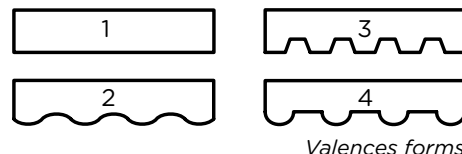
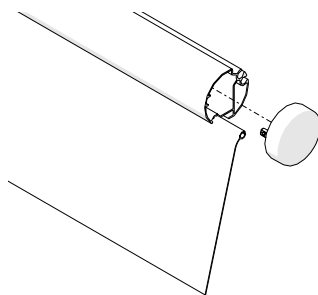
U \ B	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
1500	162	178	194	210	226	241	257	273	289	305	320	336	352	368	384	399	285	296	306	317
2000			299	324	348	373	397	422	446	471	495	520	544	569	593	618	441	457	474	490
2500					496	531	566	601	636	671	706	741	776	811	846	881	628	652	675	698
3000							763	810	857	905	952	999	1046	1094	1141	1188	848	879	911	942
3500									1111	1172	1233	1294	1356	1417	1478	1540	1098	1139	1180	1221
4000									1396	1473	1550	1627	1704	1781	1859	1936				1535

TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

11. ACCESSORIES

11.1. Valences

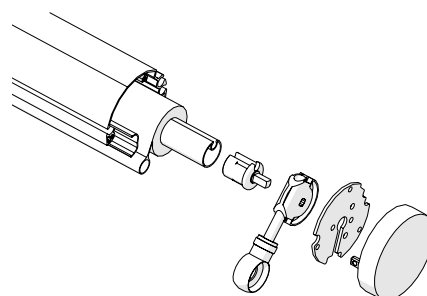
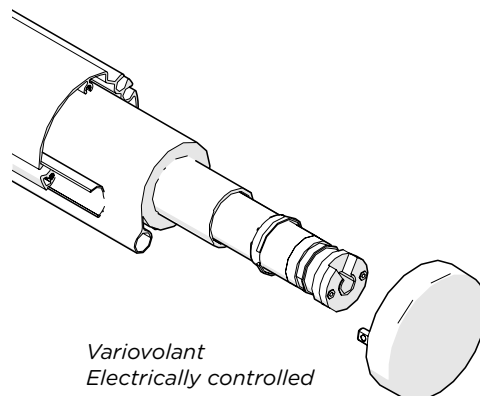
- Style 2 - wavy - is standard
- Possible to choose one of the other styles of valence
- Standard height, 250 mm; other heights possible



11.2. Variovolant (optional)

- Electrically controlled
 - IO
- Rod control (rod length 1200 mm)
 - Winding eye side standard on the same side as the sunshade Also possible on the other side

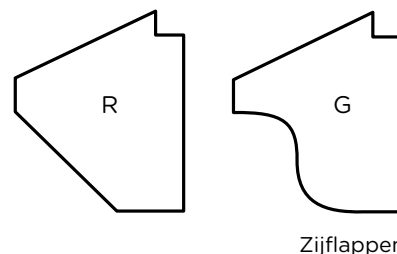
- Rolls in and out vertically.
- The standard front frame is replaced by a front frame equipped with a recess for placement of a roll-up shaft and a band of fabric.
- Maximum width: 7000 mm for Acrylic fabric
- Maximum width: 5000 mm at a projection of 3500 mm.
- Maximum roll-out height: 1400 mm for Acrylic fabric: Patterned/striped fabrics - vertical stitching
- Maximum roll-out height: 1000 mm for Rhythm + Harmony fabrics (Opera, Symphonie, Sunbrella, Jacquard): Patterned/striped fabrics - vertical stitching
- Maximum roll-out height: 2000 mm for Soltis 96 fabric - horizontally welded
- Maximum roll-out height: 1800 mm for Acrylic single-width fabric - horizontally stitched
- The underside of the Variovolant valence is finished with an open, straight hem into which a dowel can be inserted to weigh down the fabric.
- Do not use (leave rolled out or roll up) the Variovolant in moderate to heavy winds.



11.3. Side flaps

Optional

- Are mounted on the sides of the awning, between the box and the front frame
- Available in two standard models or customised according to the customer's design
- Can only be mounted on the open awning and must be removed before closing the awning



11.4. Lettering

- Possible on valence and/or fabric (option)
- When using lettering, the valence is a standard 300 mm high.

Important Remark: Text on striped fabrics and valences is often difficult to read. In those cases, please choose a monochrome fabric.

TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

12. DELIVERY

- Without attachment materials
- Protected with plastic film and packed completely in sturdy cardboard

13. USE AND MAINTENANCE

- Using and caring for the awning according to the instructions significantly extends the service life of the sunshade.
 - Do not use the awning as a rain or wind screen.
- Regular maintenance prevents wear and operational problems.
 - To clean the frame: Use soft water as opposed to aggressive products (corrosion of the lacquer and protection layers).
 - To clean the fabric:
 - Use a sturdy brush.
 - Use a lukewarm, soft soap solution on hard-to-remove stains (rinse excessively with pure water).
- Allow the fabric to dry completely before rolling it back up again (also after an unexpected rain shower).

14. SAFETY

For safety reasons, the sunshade must be installed according to the professional installation standards.

15. ORDER FORM

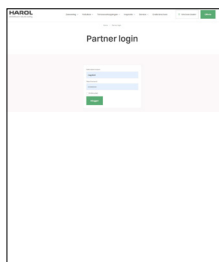
Click on link below



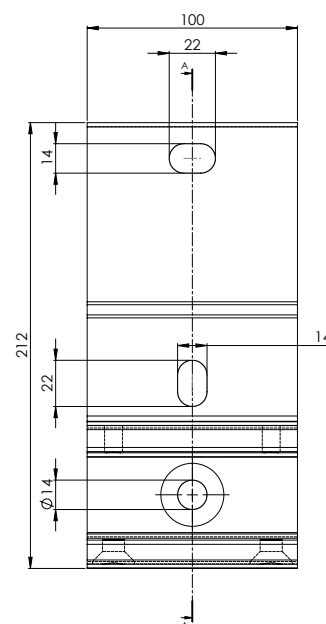
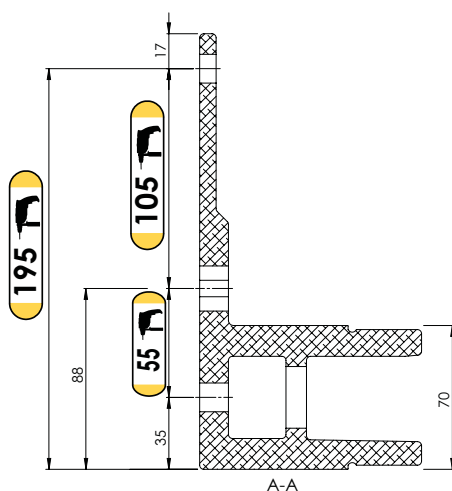
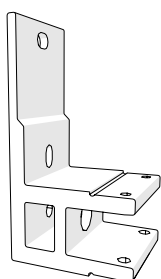
TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

16. TECHNICAL DRAWINGS

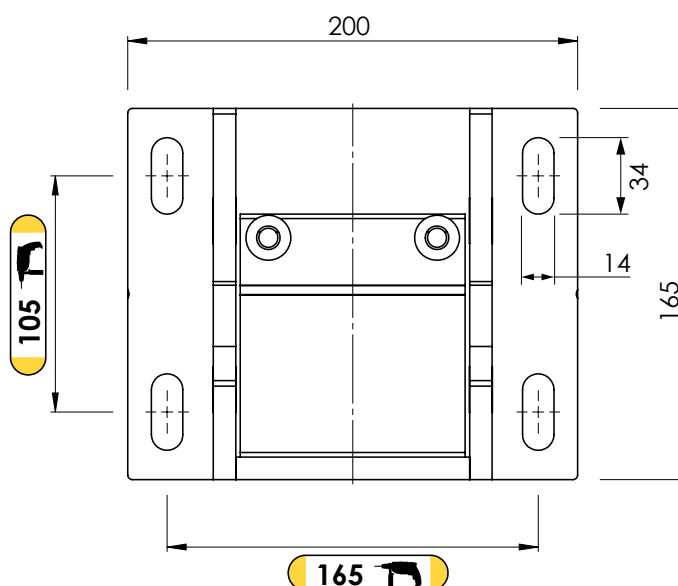
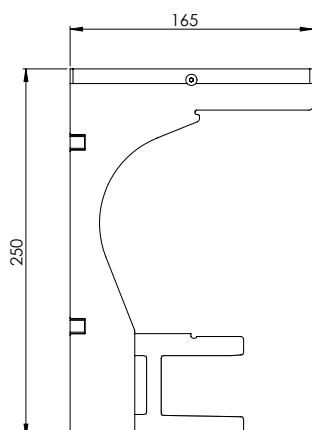
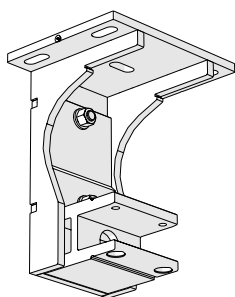
FOR DIGITAL DRAWINGS OR MORE TECHNICAL INFORMATION, PLEASE VISIT THE HAROL PORTAL
Contact our marketing team for login details or register online via www.harol.be



Wall console

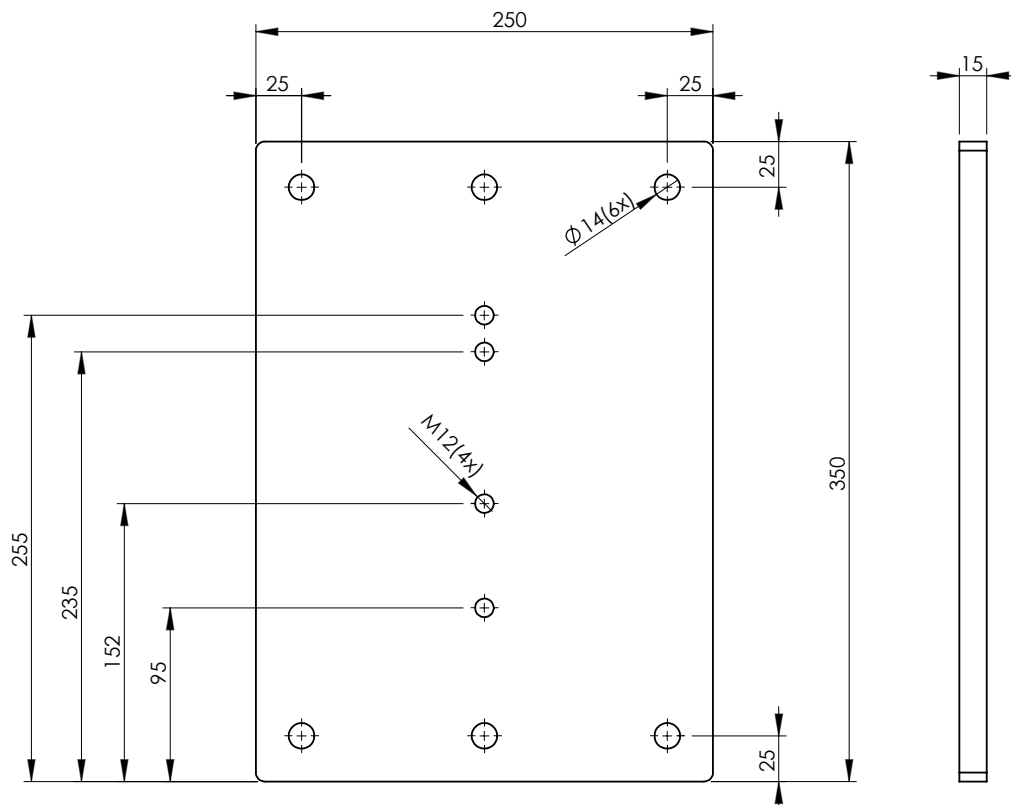
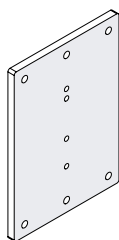


Ceiling console

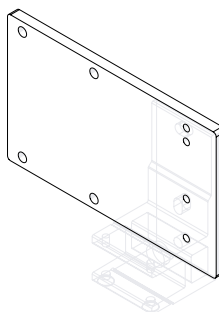
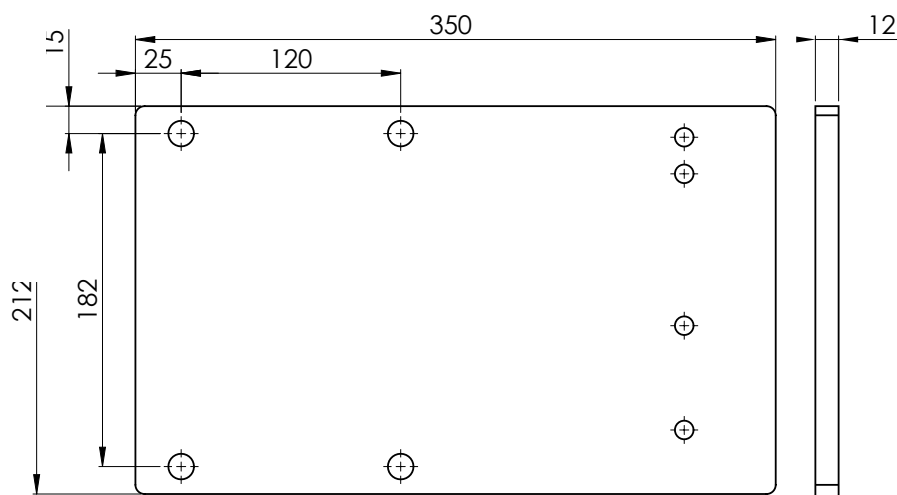
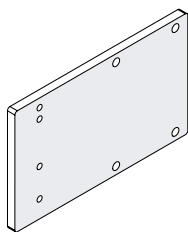


TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

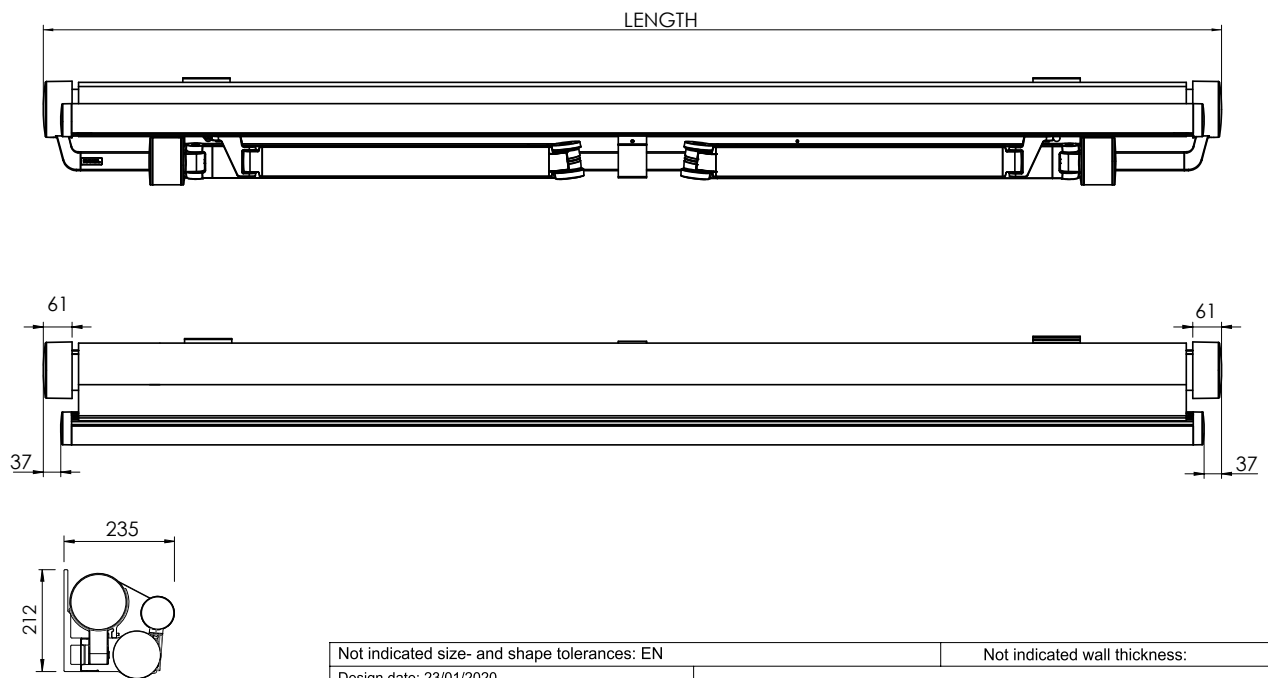
Reinforced backplate: (optional A1654)



Side plate wall console: (option A2746)

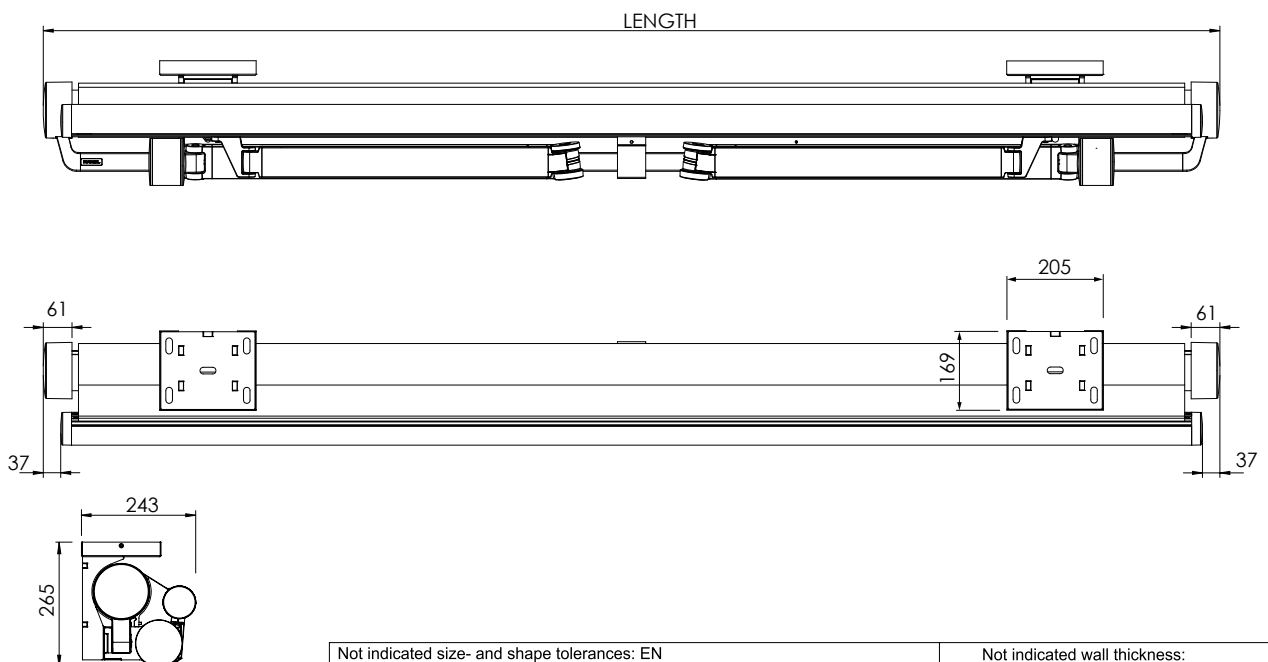


TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING



Not indicated size- and shape tolerances: EN			Not indicated wall thickness:		
Design date: 23/01/2020			PRAIA ELECTRICAL - BASIC		
Printed on: 27/01/2020		Designed by:			
EUROPEAN PROJECTION		Sheet: 1 of 1			
		unit of measure: mm			
		finish:	Surface area: mm ²	Material:	Volume: mm ³
		lx=	Coating surface: mm ²	S.G.: g/cm ³	Weight: g
		ly=	STATUS	PLAN-NUMBER	ARTICLE-NUMBER
PROPERTY OF HAROL® Industriepark 3 - 3290 DIEST TEL. 013/38 01 11 - Fax. 013/31 48 03		SCALE 1:10	WIP	D19-00024 - #_00	

Size A4

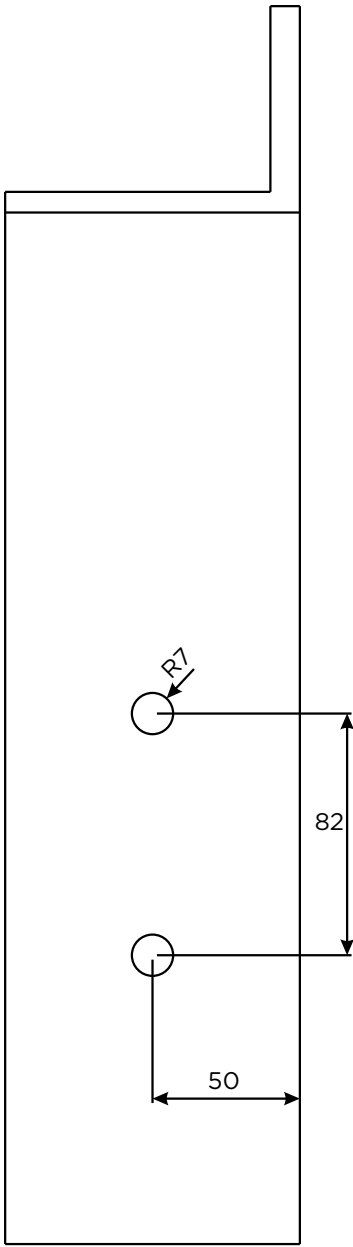
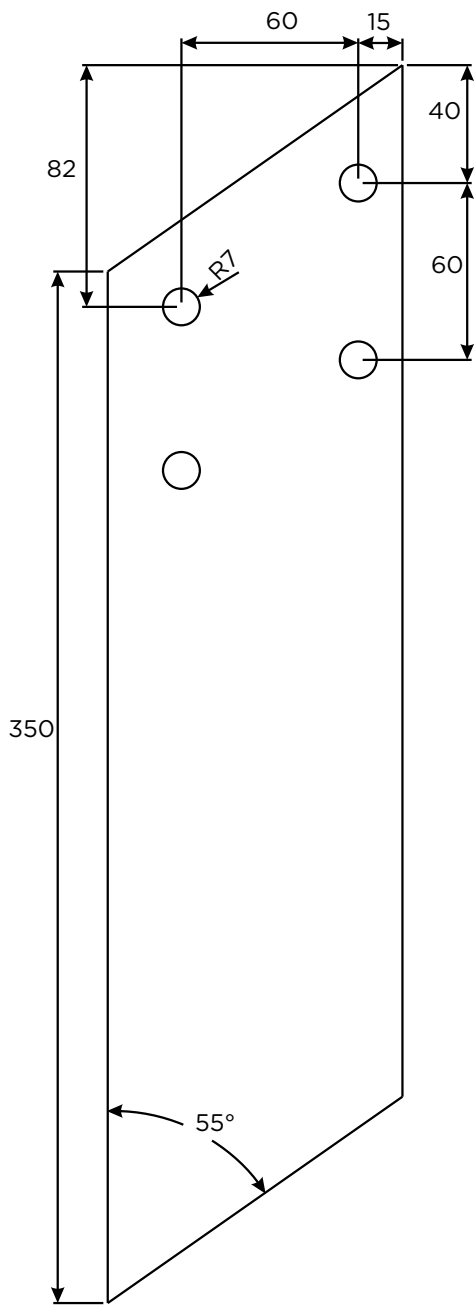
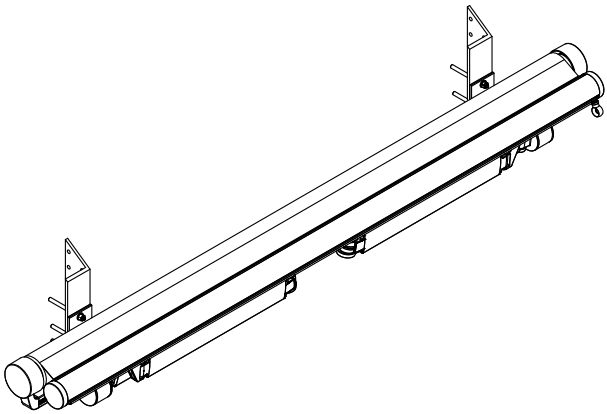
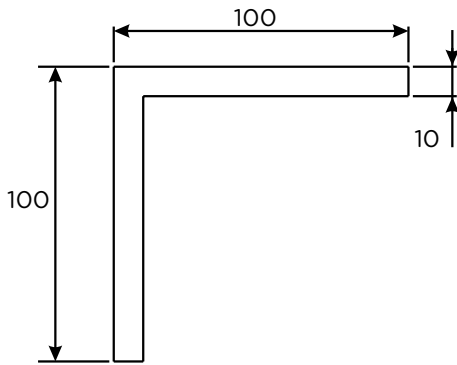


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Printed on: 24/01/2020		Designed by:			
EUROPEAN PROJECTION		Sheet: 1 of 1			
		unit of measure: mm			
		finish:	Surface area: mm ²	Material:	Volume: mm ³
		lx=	Coating surface: mm ²	S.G.: g/cm ³	Weight: g
		ly=	STATUS	PLAN-NUMBER	ARTICLE-NUMBER
PROPERTY OF HAROL® Industriepark 3 - 3290 DIEST TEL. 013/38 01 11 - Fax. 013/31 48 03		SCALE 1:10		D19-00025 - #_00	

Size A4

TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

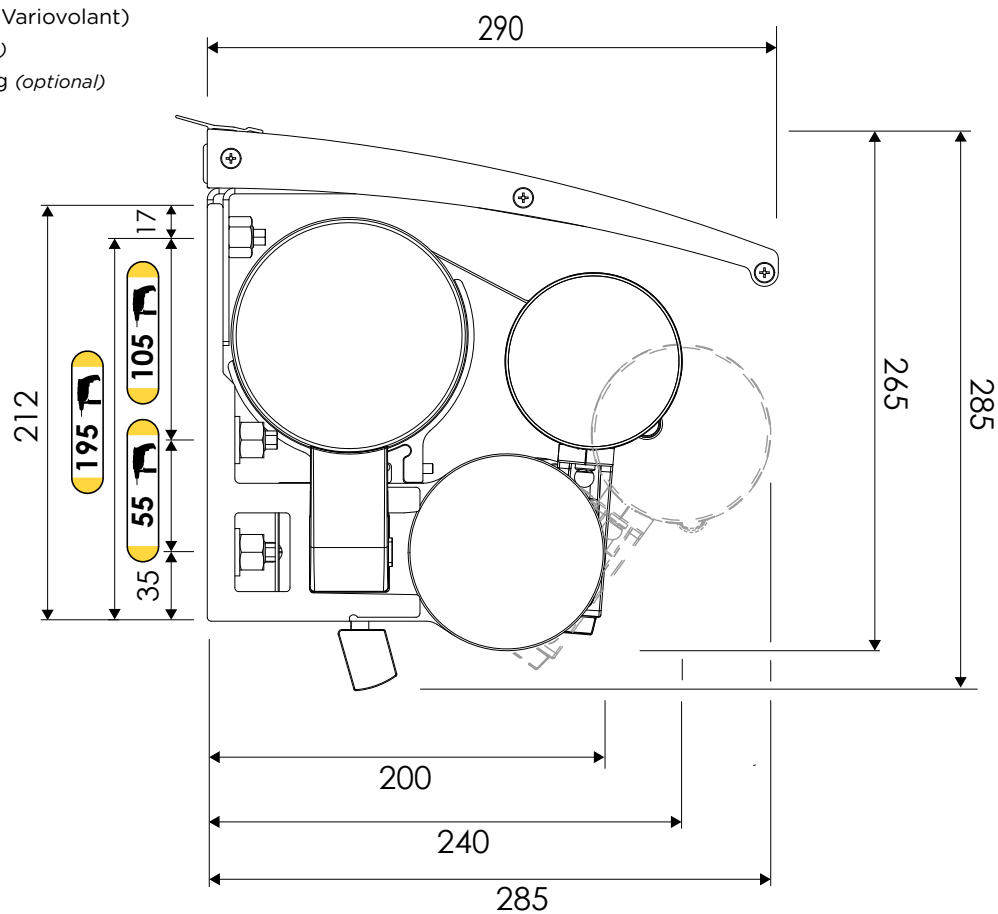
Roof truss console



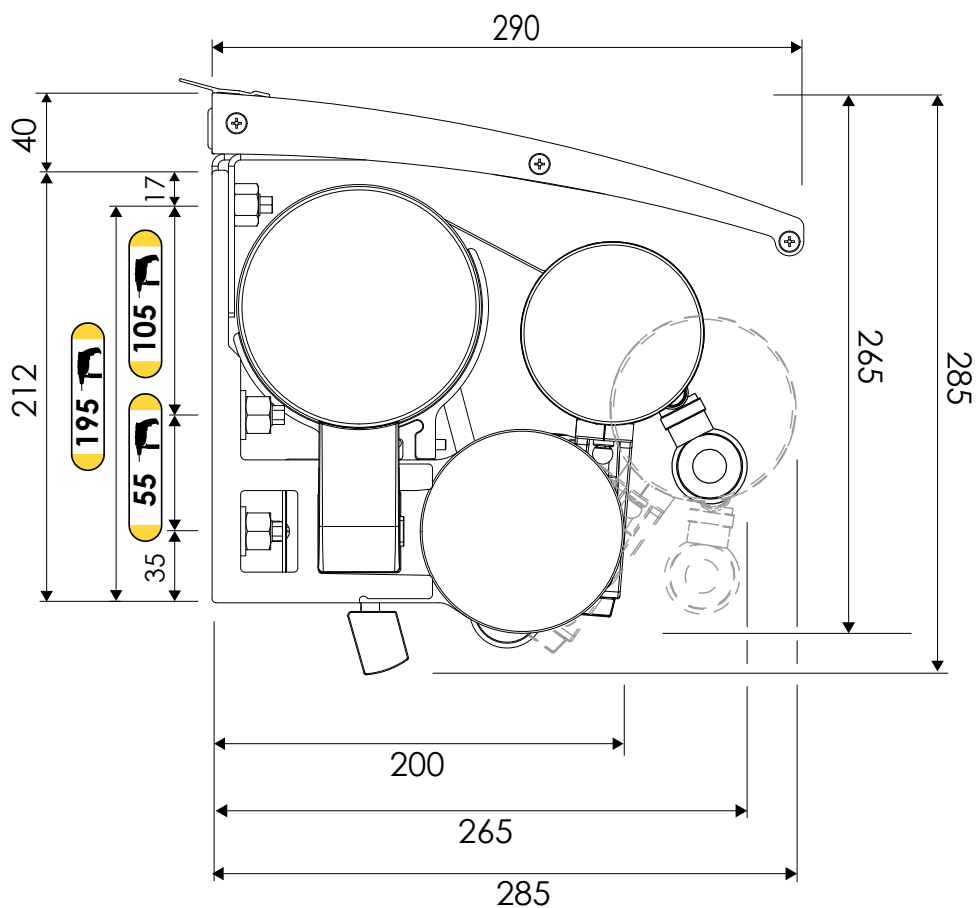
TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

DIMENSIONS

- **electric** control (arms & Variovolant)
- with cap profile (*optional*)
- o LED under the awning (*optional*)



- **manual** bediening control (arms & Variovolant)
- with cap profile *(optional)*
- LED under the awning *(optional)*



TECHNICAL SPECIFICATIONS PRAIA LATERAL-ARM AWNING

DIMENSIONS

- electric control (arms) & fixed valence
- with cap profile (*optional*)
- LED under the awning (*optional*)

